

MPE REPORT

REPORT NUMBER: I07CA6946-FCC-MPE-a

ON

Type of Equipment: CDMA Coin Payphone
Type of Designation: FW-C2080
Manufacturer: Function ATI (Huizhou)
Telecommunications Co., Ltd.

ACCORDING TO

FCC CFR 47, Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY
MATTERS; GENERAL RULES AND REGULATIONS
Section 2.1091 Radiofrequency radiation exposure evaluation:
mobile devices

China Telecommunication Technology Labs.

Month date, year
Oct, 7, 2008

Signature

He Guili
Director

FCC ID: VXOFW-C2080

Report Date: 2008-10-07

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The report is a Maximum Permissible Exposure evaluation report according to FCC CFR part 2.1091.

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1 General Information

1.1 Notes

The MPE report was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 2.1091.

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

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1.2 Editor

Calculation Person:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-07
Signature:

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-07
Signature:

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008-10-07
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, 100083
Tel: +86 10 68094053
Fax: +86 10 68011404
Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)
Registration number: CNAS Registration No. CNAS L0570
Standard: ISO/IEC 17025:2005

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: Function ATI (Huizhou) Telecommunications Co., Ltd.
Address: No.8, Huitai Road, Huitai Industrial Zone, Huizhou
City, Guangdong Province, P. R. C.
Country: P. R. C
Telephone: 86-752-5839133-609
Fax: 86-752-2601958
Contact: Teddy Li
Telephone: 86-752-5839133-609
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1.4.2 Manufacturer (if different from applicant in section 1.4.1)

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

1.4.3 Manufactory (if different from applicant in section 1.4.1)

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

2 Test Item

2.1 General Information

Manufacturer: Function ATI (Huizhou) Telecommunications Co., Ltd.

Name: CDMA Coin Payphone

Model Number: FW-C2080

Serial Number: --

Production Status: Production

Receipt date of test item: 2007-11-9

2.2 Outline of EUT

EUT is a CDMA Coin Payphone, and its operating band range is 824~849MHz.

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	CDMA Coin Payphone	Function ATI (Huizhou) Telecommunications Co., Ltd.	FW-C2080	--	None
B	Adaptor	Dongguan yingju Technology co.,Ltd.	BI13-120100-E	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	AC line	Unknown	1.8 m	No	1	None

2.5 Other Information

Emission Designator: 1M23F9W

3 Summary of Test Results

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

Specification Clause	Name of Test	Result
2.1091	MPE	Pass
Note: --		

4 Results

4.1 Applicable Standards

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range [MHz]	Electric Field Strength (E) [V/m]	Magnetic Field Strength (H) [A/m]	Power Density (S) [mW/cm ²]	Averaging Times E ² , H ² or S [minutes]
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1824/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	--	--	F/300	6
1500 - 100000	--	--	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range [MHz]	Electric Field Strength (E) [V/m]	Magnetic Field Strength (H) [A/m]	Power Density (S) [mW/cm ²]	Averaging Times E ² , H ² or S [minutes]
0.3 – 1.34	614	1.63	(100)*	30
1.34 – 30	824/f	2.19/f	(180/f)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	--	--	F/1500	30
1500 - 100000	--	--	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

4.2 MPE Calculation Method

$$S = (0.0795 \times 10^{((P+G)/10)}) / (d^2)$$

d= MPE distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density in mW/cm²

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

4.3 Calculated Results and Limits

Ch1013 mode

Antenna Gain (dBi)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	27.04	505.82	0.18	0.55	Complies

Ch384 mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	27.23	530.96	0.19	0.558	Complies

Ch777 mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	27.43	555.96	0.20	0.566	Complies

Note: The Peak Output Powers are based on the Conducted RF Power Output measurement.

————— The End of this Report —————