

MPE REPORT

REPORT NUMBER: B08GE6353-FCC-MPE

ON

Type of Equipment: GSM/GPRS Module

Type of Designation: TR-900

Manufacturer: IWOW Connections Pte Ltd

ACCORDING TO

FCC CFR 47, Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY
MATTERS; GENERAL RULES AND REGULATIONS

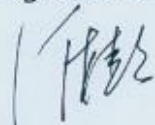
Section 2.1091 Radiofrequency radiation exposure evaluation:
mobile devices

China Telecommunication Technology Labs.

Month date, year

Oct, 6, 2008

Signature



He Guili
Director

FCC ID: QPB-TR9000808

Report Date: 2008-10-06

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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FCC Part 2.1091
Equipment: TR-900

REPORT NO.: B08GE6353-FCC-MPE

1.2 Editor

Calculation Person:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-06
Signature: 李国庆

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-06
Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008.10.6
Signature: 邹东屹

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: IWOW Connections Pte Ltd
Address: 1 Lorong 2 ToaPayoh #04-01
Yellow Pages Building
Singapore 319637
Country: Singapore
Telephone: 65-67488123
Fax: 65-67482668
Contact: Mr. Lee Yao Chiang (Chief Executive Officer)
Telephone: 65-67488123 ext 806
Email: ycllee@iwow.com.sg

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: --
Address: --

2 Test Item

2.1 General Information

Manufacturer: IWOW Connections Pte Ltd
Name: GSM/GPRS Module
Model Number: TR-900
Serial Number: --
Production Status: Production
Receipt date of test item: 2008-9-17

2.2 Outline of EUT

E.U.T. is a GSM/GPRS Module.

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	--	--	--	None
B	Adaptor	--	--	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	AC line	Unknown	1.0 m	No	1	None

2.5 Other Information

None

3 Summary of Results

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

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

Test Report

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

Band	Gain (dBi)	Power (dBm)	d (cm)	S (mW/cm ²)
GSM850	0	32.2	20	0.329842898
EGSM900	0	32.2	20	0.329842898
DCS1800	0	29.2	20	0.16531305
PCS1900	0	29.2	20	0.16531305

_____ The End of this Report _____