TEST REPORT

REPORT NUMBER: I08GE4343-FCC-PART15B

ON

Type of Equipment:	**GSM/GPRS/EDGE/WCDMA/HSDPA Data Card**
Type of Designation:	**One Touch X030**
Manufacturer:	**T&A Mobile Phones**

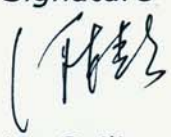
ACCORDING TO

Part 15B: Radio Frequency Devices, Sep 20, 2007

China Telecommunication Technology Labs.

Month date, year
Feb, 3, 2008

Signature



He Guili
Director

FCC ID: RAD081

Report Date: 2008-2-3

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 15B. The sample tested was found to comply with the requirements defined in the applied rules.

CONTENTS

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 15B.

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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1.2 Testers

Name: Li Guoqing

Position: Engineer

Department: Department of EMC test

Signature: 李国庆

Name: Lv Ke

Position: Engineer

Department: Department of EMC test

Signature: 吕克

Editor of this test report:

Name: Li Guoqing

Position: Engineer

Department: Department of EMC test

Date: 2008-2-3

Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi

Position: Manager

Department: Department of EMC test

Date: 2008.2.3

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

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:	T&A Mobile Phones
Address:	4/F, South Building, No.2966, Jinke Road, Zhangjiang High-Tech Park, Pudong, Shanghai, 201203, P.R.China
Country:	China
Telephone:	+86-21-61460888
Fax:	+86-21-61460600
Contact:	Kong Ying
Telephone:	+86-21-61460883
Email:	ying.kong@jrdcom.com

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: T&A Mobile Phones

Name: GSM/GPRS/EDGE/WCDMA/HSDPA Data Card

Model Number: One Touch X030

Serial Number: --

Production Status: Production

Receipt date of test item: 2007-09-07

2.2 Outline of EUT

EUT is a GSM/GPRS/EDGE/WCDMA/HSDPA Data Card.

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	Data card	T&A Mobile Phones	One Touch X030	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	USB cable	Unknown	1.0 m	No	1	None

2.5 Other Information

(a)GPRS modulation is GMSK.
EDGE modulation is 8PSK.
WCDMA modulation is QPSK.
HSDPA modulation is QPSK.

(b) Emission Designator of GPRS: 250KGXW
Emission Designator of EDGE: 248KG7W
Emission Designator of WCDMA: 4M40F9W
Emission Designator of HSDPA: 4M70F9W

3 Summary of Test Results

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

Specification Clause	Name of Test	Result
15.109	Radiated Emission	Pass
15.107	Conducted Emission	Pass
Note: The EUT complies with the requirements of the Class B digital devices.		

4 Test Results

4.1 Radiated Emission: 15.109

Specifications:	15.109, ANSI C63.4-2003
Date of Tests	2008.1.8
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	TX on
Test Results:	Pass

Test equipment Used:

Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2008-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
1809	Notebook	Dell	PP01L	INSPIRAON4000	--	Normal

Limit Level Construction:
According to Part 15.109(a).

Limits

Frequency [MHz]	Field Strength [μV/m]	Field Strength [dBμV/m]	Measurement distance [m]
30 -88	100	40.0	3
88-216	150	43.5	3
216 – 960	200	46.0	3
Above 960	500	54.0	3

Note: The tighter limit applies at the band edges.

Test Setup:

The EUT was placed in an anechoic chamber, see figure RE. The EUT is tested as tabletop EUT. The EUT is positioned on an 80cm height wood table.
The EUT is used as the peripheral equipment of the Notebook.
The setup is according to Figure 11a of ANSI C63.4-2003.
The Wireless Communications Test Set (Test Simulator) 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 RE for 15.109: Test Setup: 30MHz – 1GHz

Test Method

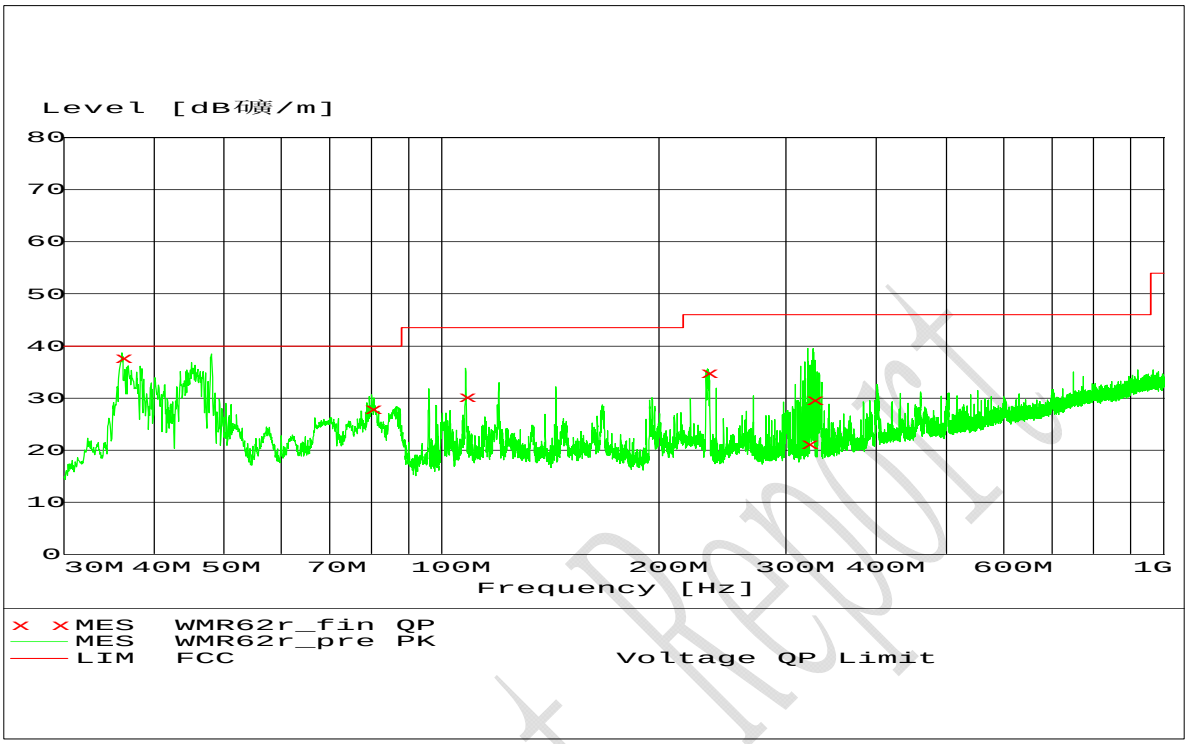
During the test, the EUT was operating in its maximum power level under the control of test simulator. The AC power line was connected to the artificial mains network then to EMI receiver. The measurement was done by the automated test system.

Note: --.

Test Data:

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Antenna Height [cm]	Turntable Azimuth [degree]	Antenna Polarisation (V/H)
36.060000	37.7	40.0	124	255	VERTICAL
79.980000	27.9	40.0	105	312	VERTICAL
107.940000	30.1	43.5	100	83	VERTICAL
233.520000	34.8	46.0	136	113	HORIZONTAL
321.420000	21.1	46.0	100	171	HORIZONTAL
327.000000	29.6	46.0	100	315	HORIZONTAL
Remarks: --					

Graphical Results:



Graphical results: 30MHz – 1GHz

4.2 Conducted Emission: 15.107

Specifications:	15.107, ANSI C63.4-2003
Date of Tests	2008.1.8
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	TX on
Test Results:	Pass

Test equipment Used:

Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7330	EMI Test Receiver	R/S	ESI40	839283/007	2008-02-03	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2009-01-09	Normal
714	Shielding Room	ETS	--	19003	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
1809	Notebook	Dell	PP01L	INSPIRAON4000	--	Normal

Limit Level Construction:
According to Part 15.107 (a)

Limits for Conducted Emission

Frequency of Emission [MHz]	Conducted limit [dBμV]	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

Test Setup:

The EUT was placed in a shielding room, see figure CE. The EUT is positioned on an 80cm height wood table. The EUT is used as the peripheral equipment of the Notebook.

The setup is according to Figure 10a of ANSI C63.4-2003.

The Wireless Communications Test Set (Test Simulator) 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 CE

Test Method:

During the test, the EUT was operating in its maximum power level under the control of test simulator. The AC power line of the Notebook was connected to the artificial mains network then to EMI receiver. The measurement was done by the automated test system.

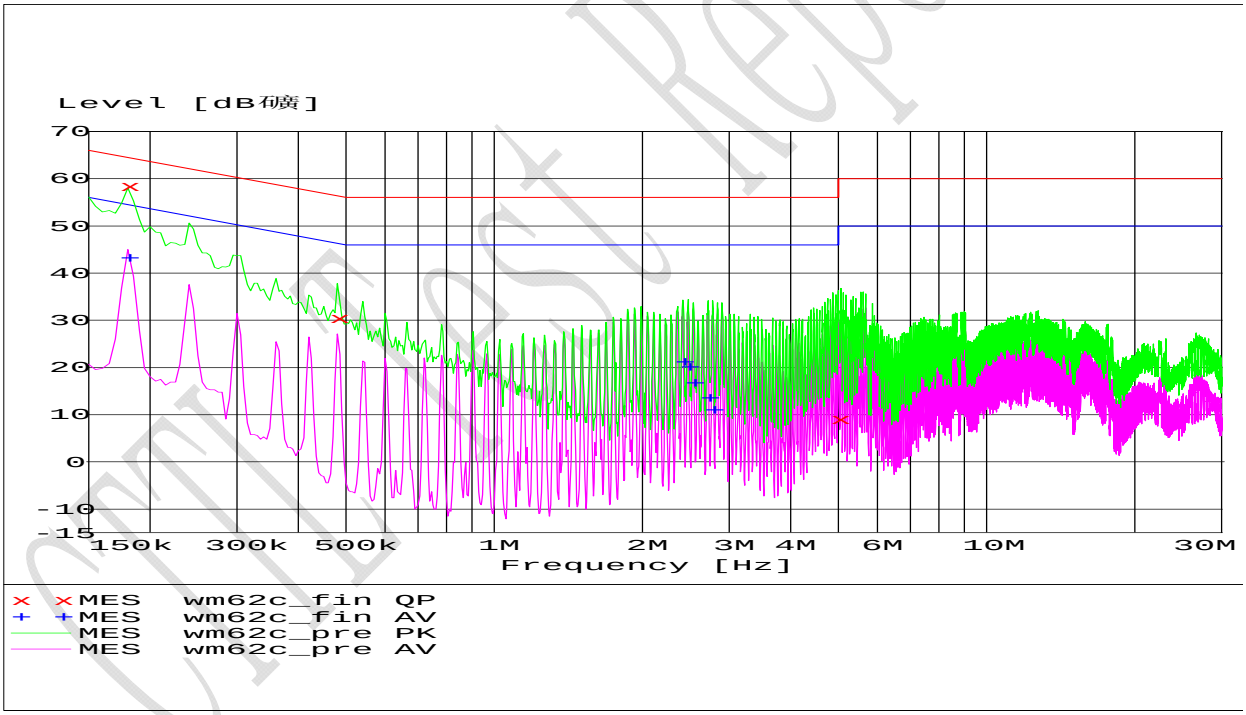
Note:

None.

Test Data:

Detector (QP/AV)	Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Line	PE
QP	0.180000	58.4	65	6.1	N	GND
QP	0.480000	30.5	56	25.9	N	GND
QP	4.995000	9.0	56	47.0	N	GND
AV	0.180000	43.2	55	11.3	N	GND
AV	2.415000	21.1	46	24.9	L1	GND
AV	2.475000	20.1	46	25.9	L1	GND
AV	2.535000	16.7	46	29.3	L1	GND
AV	2.715000	13.4	46	32.6	L1	GND
AV	2.775000	11.0	46	35.0	L1	GND
Remarks: --						

Graphical results:



CE graphical results

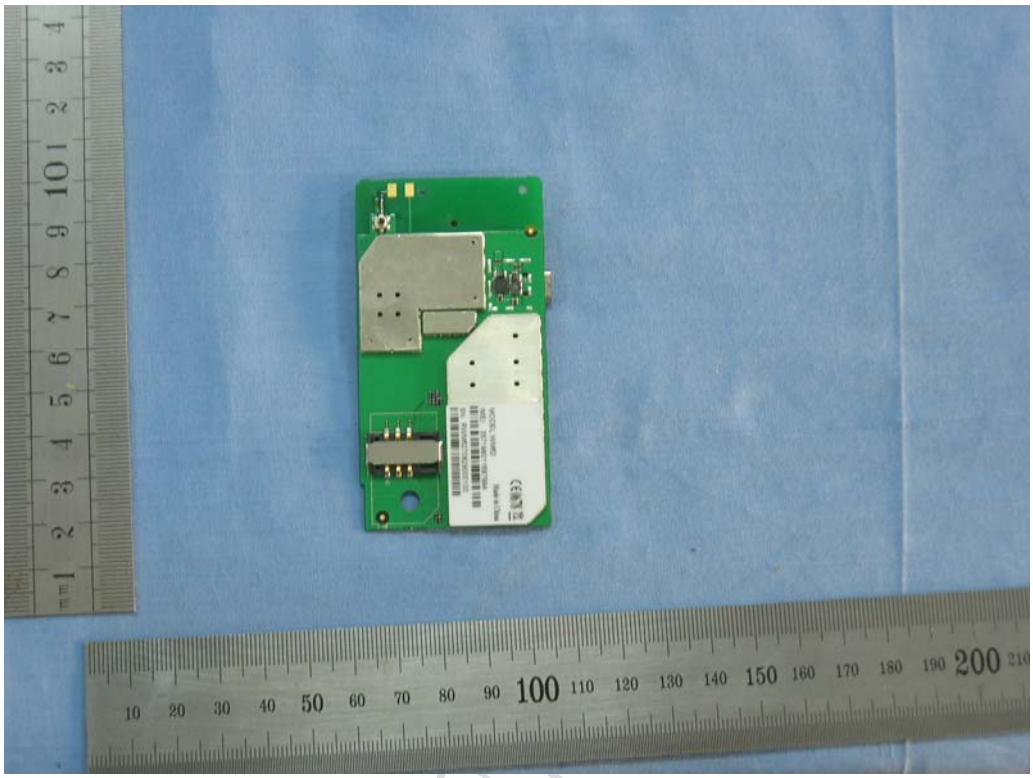
Annex A External Photos

Picture 1 Front view

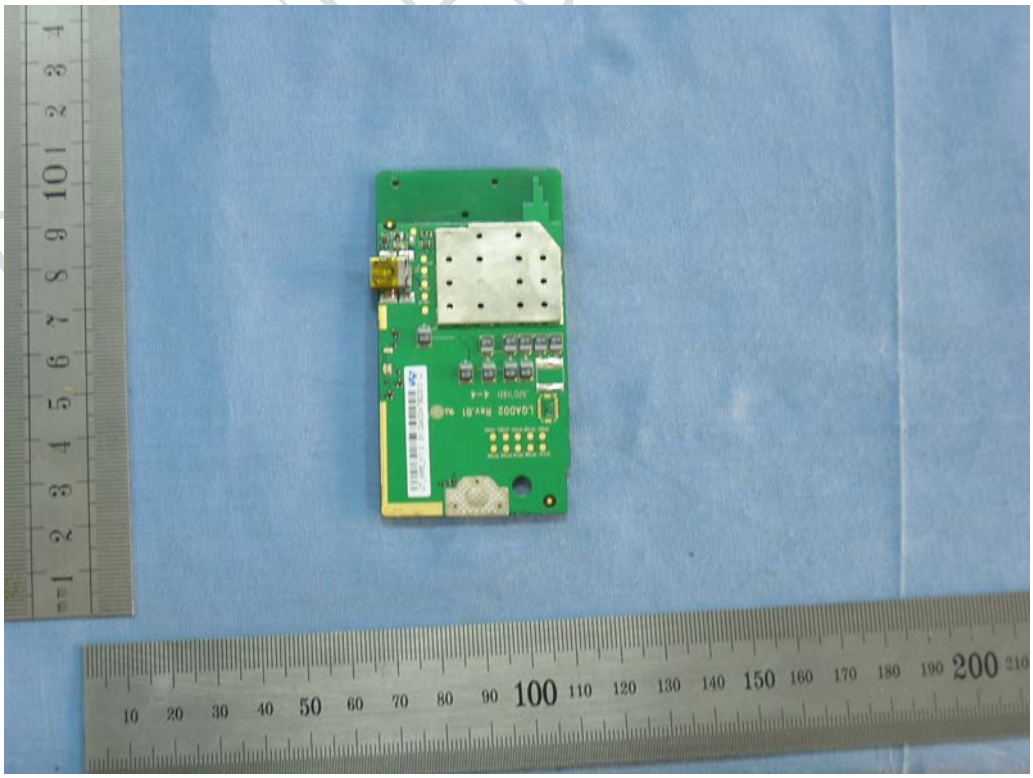
Picture 2 Back view

Picture 3 Cable

Annex B Internal Photos



Picture 5 Front view of the internal structure



Picture 6 Back view of the internal structure

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

The End of this Report