No.2010TAR064 Page1 of 16



TEST REPORT

No. 2010TAR064

for

TCT Mobile Limited

GSM/GPRS/EDGE 850/1800/1900 Tri-band mobile phone

Model Name: Yippee A/Yippee Yahoo A

Market Name : OT-802A/OT-802YA

FCC ID : RAD133

with

Hardware Version: Lot0

Software Version: V825/V524

Issued Date: Apr 02nd, 2010

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. DAT-P-114/01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China 100083.

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1. Test Laboratory

1.1. Testing Location

Company Name:	TMC Beijing, Telecommunication Metrology Center of MIIT
Address:	No 52, Huayuan beilu, Haidian District, Beijing,P.R.China
Postal Code:	100083
Telephone:	00861062303288
Fax:	00861062304793

1.2. Testing Environment

Normal Temperature:	15-35° ℃
Relative Humidity:	20-75%

1.3. Project data

Testing Start Date:	Mar 05th,2010
Testing End Date:	Mar 30th,2010

1.4. Signature

登税则

Zi Xiaogang (Prepared this test report)

30.00 BI

Sun Xiangqian (Reviewed this test report)

防水药

Lu Bingsong Deputy Director of the laboratory (Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name:	TCT Mobile Limited
Address /Post:	4/F, South Building, No.2966, Jinke Road, Zhangjiang High-Tech Park,
Address / Post.	Pudong,Shanghai, 201203, P.R.China
City:	Shanghai
Postal Code:	201203
Country:	China
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

2.2. Manufacturer Information

Company Name:	TCT Mobile Limited		
Address /Post:	4/F, South Building, No. 2966, Jinke Road, Zhangjiang High-Tech Park,		
Address /Post.	Pudong,Shanghai, 201203, P.R.China		
City:	Shanghai		
Postal Code:	201203		
Country:	China		
Telephone:	0086-21-61460890		
Fax:	0086-21-61460602		



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/GPRS/EDGE 850/1800/1900 Tri-band mobile phone
Model Name	Yippee A/Yippee Yahoo A
Market Name	OT-802A/OT-802YA
Brand Name	ALCATEL
FCC ID	RAD133
Frequency	GSM 850MHz; DSC1800MHz; PCS 1900MHz;
Antenna	Internal
Power supply	Battery or Charger(AC Adaptor)
Extreme vol. Limits	3.5VDC to 4.2VDC (nominal: 3.8VDC)
Extreme temp. Tolerance	-30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MII of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N01	012219000032153	Lot0	V825/V524

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Battery	/
AE2	Travel Adapter	/
AE3	Travel Adapter	/
AE4	Data Cable	/

AE1

Model	CAB30P0000C1
Manufacturer	BYD
Capacitance	850mAh
Nominal Voltage	3.7V
AE2	
Model	CBA30Y0AG0C1
Manufacturer	BYD
Length of DC line	150cm
AE3	
Model	CBA30Y0AG0C2
Manufacturer	Tenbao
Length of DC line	150cm



AE4

ModelCDA300000C1Length of DC line120cm

*AE ID: is used to identify the test sample in the lab internally.

4. <u>Reference Documents</u>

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	V 10.1.07
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions	2003
	from Low-Voltage Electrical and Electronic Equipment in	
	the Range of 9 kHz to 40 GHz	

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters × 17 meters × 10 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C	
Relative humidity	Min. = 30 %, Max. = 60 %	
Shielding effectiveness	> 110 dB	
Electrical insulation	> 10 kΩ	
Ground system resistance	< 0.5 Ω	
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz	
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz	
Control room did not exceed following limits along the EMC testing:		
Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. =30 %, Max. = 60 %	
Shielding effectiveness	> 110 dB	
Electrical insulation	> 10 kΩ	
Ground system resistance	< 0.5 Ω	
Conducted chamber did not exceed following limits along the EMC testing:		
Temperature	Min. = 15 °C, Max. = 30 °C	
Relative humidity	Min. = 30 %, Max. = 60 %	
Shielding effectiveness	> 110 dB	
Electrical insulation	> 10 kΩ	
Ground system resistance	< 0.5 Ω	
Fully-anechoic chamber (6.8 meters × 3.08 meters × 3.53 meters) did not exceed following limits		

Fully-anechoic chamber (6.8 meters × 3.08 meters × 3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB



Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:	
Р	Pass
NA	Not applicable
F	Fail

Clause	List	Clause in FCC rules	Verdict
1	Radiated Emission	15.109(a)	Р
2	Conducted Emission	15.107(a)	Р

7. Test Equipments Utilized

NO.	Description	escription TYPE		MANUFACTUR	CAL DUE
NO.	Description	ITPE	NUMBER	E	DATE
1	Test Receiver	ESS	847151/015	R&S	2010-10-30
2	Test Receiver	ESI40	831564/002	R&S	2011-2-10
3	BiLog Antenna	3142B	9908-1403	EMCO	2011-1-15
4	BiLog Antenna	VUL9163	9163 175	Schwarzbeck	2010-9-19
5	Signal Generator	SMT06	831285/005	R&S	2010-12-25
6	Signal Generator	SMP04	100070	R&S	2010-4-20
7	LISN	ESH2-Z5	829991/012	R&S	2010-9-13
8	Spectrum Analyzer	FSU26	200030	R&S	2010-6-17
9	Universal Radio Communication Tester	CMU200	100680	R&S	2010-8-22
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2010-3
11	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2010-3
12	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2010-3
13	Climatic chamber	SH-241	92003546	ESPEC	2010-5-15

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NO.	Description	TYPE	SERIES NUMBER	MANUFACTUR E	CAL DUE DATE
14	PC	OPTIPLEX 755	3908243625	DELL	N/A
4.5			CN-OWR979-641		
15	Monitor	E178FPc	80-7AJ-D2MS	DELL	N/A
16	Printer	DeskJet D2368	TH72E12G7Q	HP	N/A
17			CN0RH65965890		
17	Keyboard	L100	7ATOI40	DELL	N/A
18	Mouse	VR-301	6927225500198	XINGYU	N/A



ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at a distance of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 – 2003, section 8.3.

A.1.2 EUT Operating Mode:

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 755, and the serial number of the PC is 3908243625. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

A.1.3 Measurement Limit

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500



A.1.4 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable los.

The measurement results are obtained as described below:

Result=P_{Mea}+A_{Rpl}

Charging Mode AE2

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{Mea} (dBuV/m)	Polarity
3644.162	48.9	13.7	35.2	VERTICAL
3888.27	48.88	13.7	35.18	VERTICAL
3432.456	48.67	11.6	37.07	HORIZONTAL
3572.181	48.44	13.8	34.64	HORIZONTAL
3868.926	48.42	13.8	34.62	VERTICAL
3966.621	48.42	13.8	34.62	HORIZONTAL

Charging Mode AE3

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{Mea} (dBuV/m)	Polarity
3590.042	48.41	13.8	34.61	HORIZONTAL
3717.594	48.39	13.9	34.49	VERTICAL
3680.695	48.24	13.9	34.34	HORIZONTAL
3466.866	48.2	11.6	36.6	HORIZONTAL
3554.409	48.15	13.9	34.25	HORIZONTAL
3699.098	48.04	13.9	34.14	VERTICAL

USB Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{Mea} (dBuV/m)	Polarity
3484.2	49.11	11.6	37.51	HORIZONTAL
3849.677	48.59	13.9	34.69	VERTICAL
3699.098	48.58	13.9	34.68	VERTICAL
3554.409	48.43	13.9	34.53	VERTICAL
2134.231	48.39	7.5	40.89	VERTICAL
3536.725	48.35	14	34.35	HORIZONTAL



Charging Mode

AE2

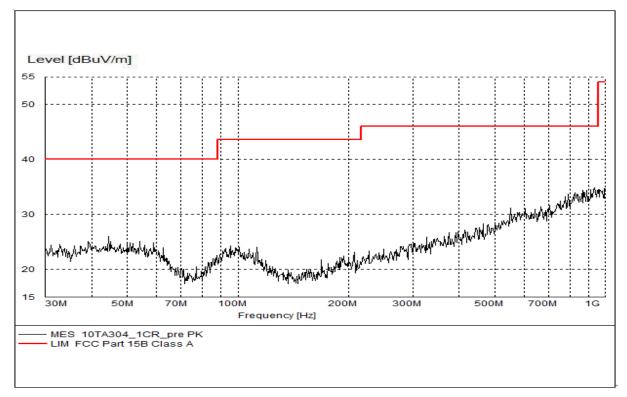
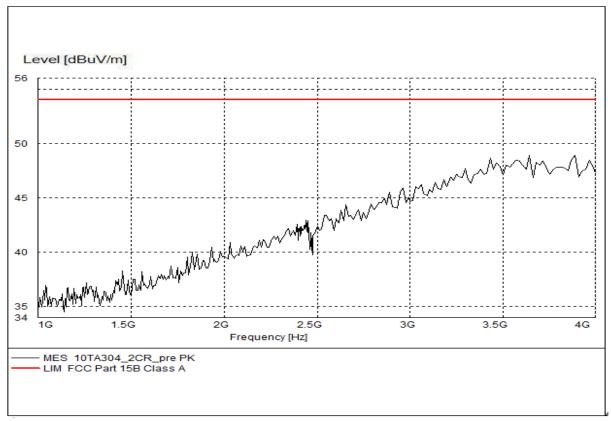


Figure A.1 Radiated Emission from 30MHz to 1GHz





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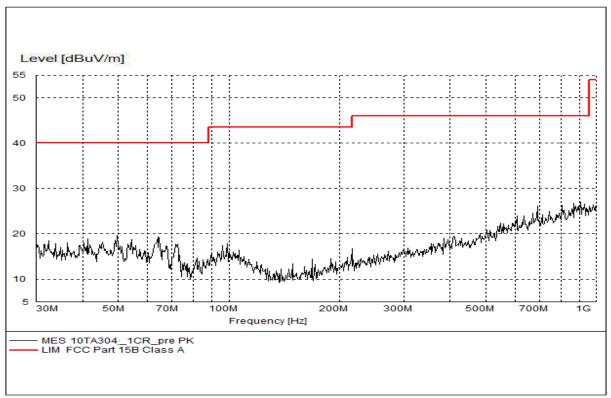


Figure A.3 Radiated Emission from 30MHz to 1GHz

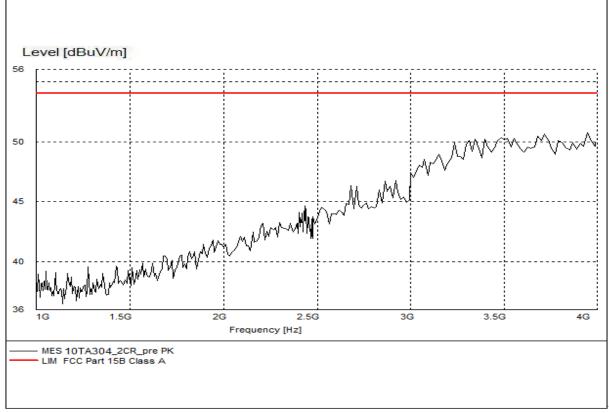


Figure A.3 Radiated Emission from 1GHz to 4GHz



USB Mode

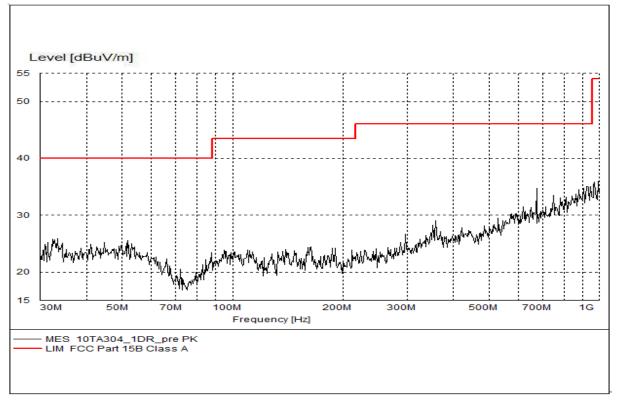


Figure A.5 Radiated Emission from 30MHz to 1GHz

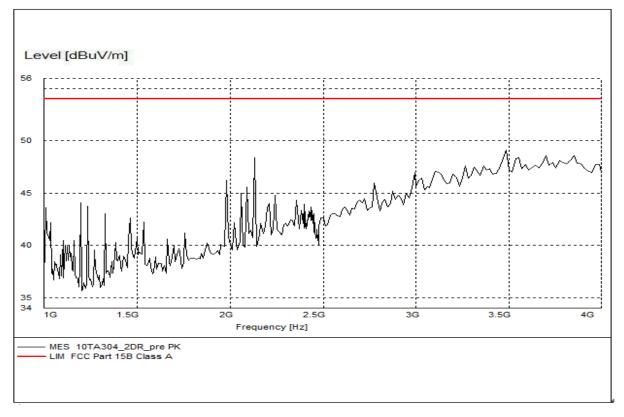


Figure A.6 Radiated Emission from 1GHz to 4GHz



A.2 Conducted Emission (§15.107(a))

A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 - 2003, section 7.2.

A.2.2 EUT Operating Mode:

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 755, and the serial number of the PC is 3908243625. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

A.2.3 Measurement Limit

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			

Decreases with the logarithm of the frequency

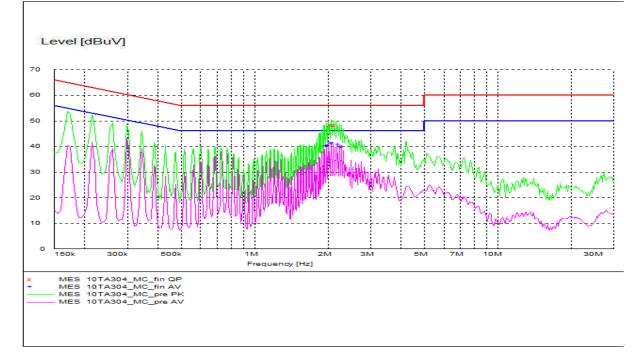
A.2.4 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
110	60



A.2.4 Measurement Results

Charging Mode



MEASUREMENT RESULT: "10TA304_MC_fin QP"

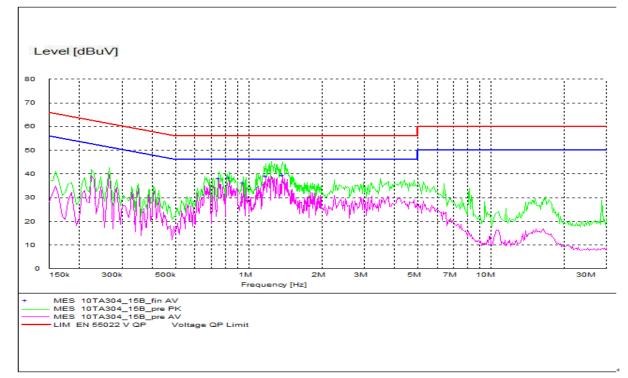
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dE	3 dB	μV	dB	
2.060602	48.40	10.1	56	7.6	L1	FLO
2.144271	48.20	10.1	56	7.8	L1	GND

MEASUREMENT RESULT: "10TA304_MC_fin AV"

Frequency	Level	Transd I	_imit Ma	argin	Line	PE
MHz	dBµV	dB	dBµV		dB	
1.975000	40.10	10.1	46	5.9	L1	FLO
2.020000	40.40	10.1	46	5.6	L1	FLO
2.060602	41.30	10.1	46	4.7	L1	FLO
2.102020	41.30	10.1	46	4.7	L1	GND
2.231337	40.80	10.1	46	5.2	L1	GND
2.276187	39.60	10.1	46	6.4	L1	FLO



USB Mode





MEASUREMENT RESULT: "10TA304_15B_fin AV"

Frequency	Level	Transd L	imit Ma	rgin	Line	PE
MHz	dBµV	dB	dBµV		dB	
0.755000	38.00	10.1	46	8.0	Ν	FLO
0.830000	38.20	10.1	46	7.8	Ν	FLO
0.955000	36.10	10.1	46	9.9	Ν	FLO
1.180000	38.90	10.1	46	7.1	Ν	FLO
1.380000	39.20	10.1	46	6.8	Ν	FLO

END OF REPORT