# TEST REPORT

**REPORT NUMBER: I08GE6136-FCC-PART15B**

**ON**

**Type of Equipment:** HSDPA USB Stick
**Type of Designation:** K3565-Z
**Manufacturer:** ZTE Corporation

**ACCORDING TO**
**Part 15B: Radio Frequency Devices, Sep 20, 2007**

**China Telecommunication Technology Labs.**

*Month date, year*
*Sep, 05, 2008*

*Signature*

He Guili
**Director**

| | |
|---|---|
| **FCC ID:** | Q78-K3565-Z |
| **Report Date:** | 2008-9-3 |
| **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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# TEST REPORT

## REPORT NUMBER: I08GE6225-SAR

**ON**

**Type of Equipment:** GSM Dual-band GPRS Digital Mobile Phone
**Type of Designation:** ZTE A931
**Manufacturer:** ZTE CORPORATION

**ACCORDING TO**

**EN 50360:2001 Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)**

**EN 50361:2001 Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz)**

**China Telecommunication Technology Labs.**

*Month date, year*
*Sep, 03, 2008*

*Signature*

He Guili
**Director**

## 1.3 Testing Laboratory information

1.3.1 Location

| | |
|---|---|
| Name: | China Telecommunication Technology Labs. |
| Address: | No. 11, Yue Tan Nan Jie, Xi Cheng District<br>BEIJING<br>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: | ZTE Corporation |
| Address: | ZTE Plaza, Keji Road South, Hi-Tech Industrial Park,Nanshan District,Shenzhen, Guangdong, 518057, P.R.China |
| Country: | China |
| Telephone: | +86-21-50701080 |
| Fax: | +86-21-68895196 |
| Contact: | Li Dezi |
| Telephone: | +86-21-50701080 |
| Email: | li.dz@zte.com.cn |

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: ZTE Corporation
Name: HSDPA USB Stick
Model Number: K3565-Z
Serial Number: --
Production Status: Production
Receipt date of test item: 2008-8-11

## 2.2 Outline of EUT

E.U.T. is a USB Stick.

## 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 | HSDPA USB Stick | ZTE Corporation | K3565-Z | -- | None |

Cables:

| Item | Cable Type | Manufacturer | Length | Shield | Quantity | Remarks |
|---|---|---|---|---|---|---|
| 1 | DC cable on Adapter | Unknown | 1.0 m | No | 1 | None |

## 2.5 Other Information

Hardware Version: P673A2-2.0.0

Software Version: BD_P673A2V1.0.0B04

# 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

| | |
|---|---|
| **Specifications:** | 15.109, ANSI C63.4-2003 |
| **Date of Tests** | 2008-8-20 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>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 | SCHWARZBECK | VULB 9160 | -- | 2010-10-26 | Normal |
| 7330 | Double-Ridged Horn Antenna | R/S | HF906 | 100037 | 2009-01-14 | 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 |

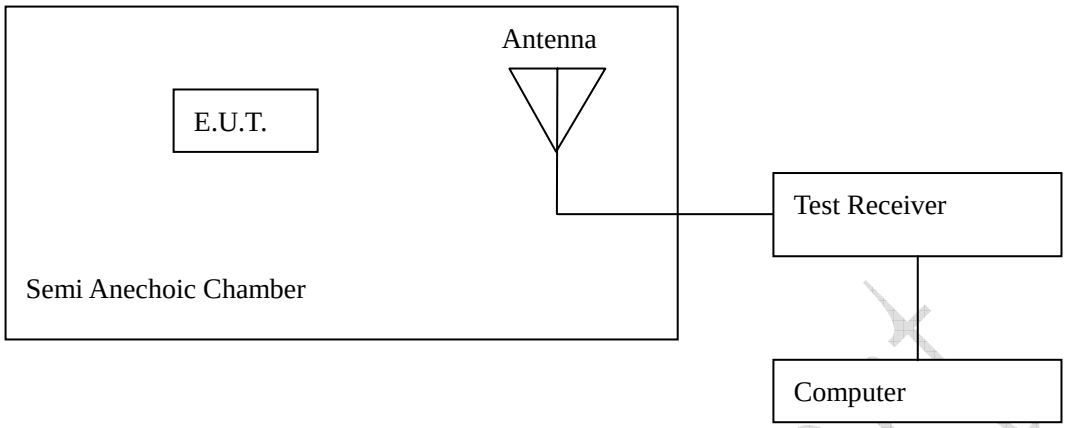
**Limit Level Construction:**
According to Part 15.109(a).

**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 Configuration




The measuring distance between E.U.T and antenna is 3m.

## 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 PC.
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

## Test Method

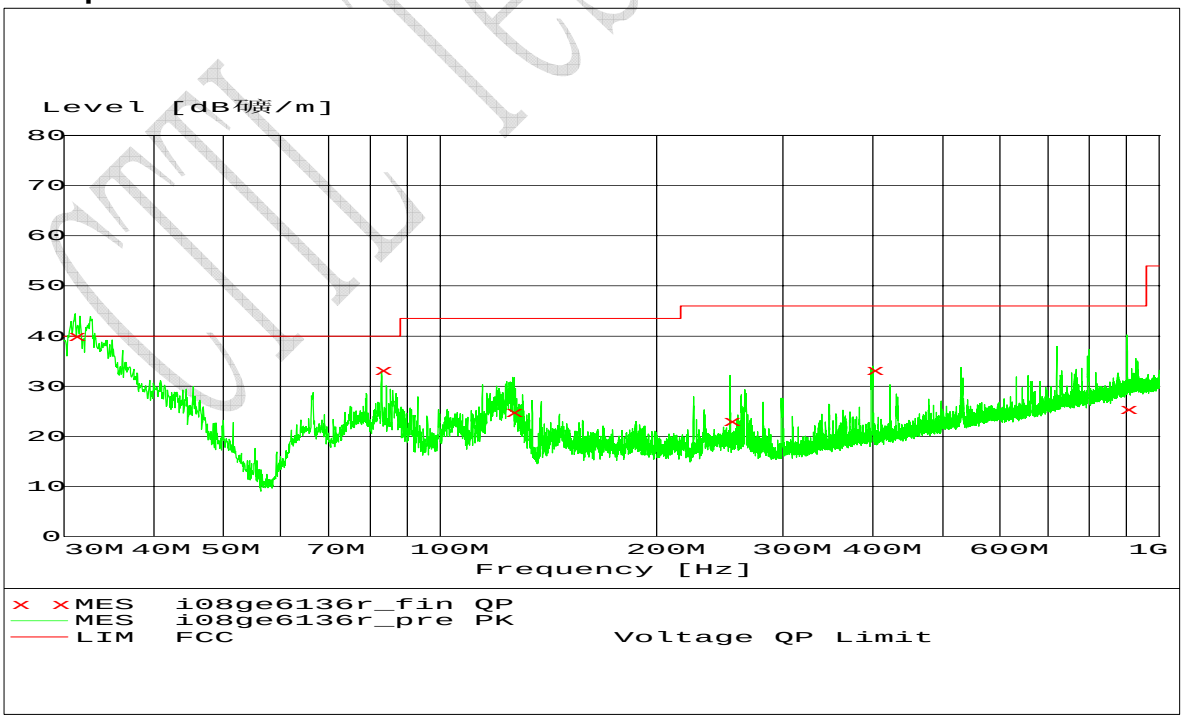
During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The measurement was done by the automated test system.

## Note: --

## Test Data:

| Frequency [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Antenna Height [cm] | Turntable Azimuth [degree] | Antenna Polarisation (V/H) |
|---|---|---|---|---|---|
| 31.080000 | 39.9 | 40 | 100 | 225 | VERTICAL |
| 82.920000 | 33.1 | 40 | 100 | 225 | VERTICAL |
| 126.240000 | 24.8 | 43 | 100 | 171 | VERTICAL |
| 253.200000 | 23.0 | 46 | 100 | 294 | HORIZONTAL |
| 399.720000 | 33.1 | 46 | 131 | 193 | VERTICAL |
| 902.340000 | 25.4 | 46 | 100 | 192 | VERTICAL |
| Remarks: -- | | | | | |

**Graphical Results:**




Graphical results

## 4.2 Conducted Emission

| | |
|---|---|
| **Specifications:** | 15.107, ANSI C63.4-2003 |
| **Date of Tests** | 2008-8-20 |
| **Test conditions:** | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>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 | 2009-02-03 | 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 |

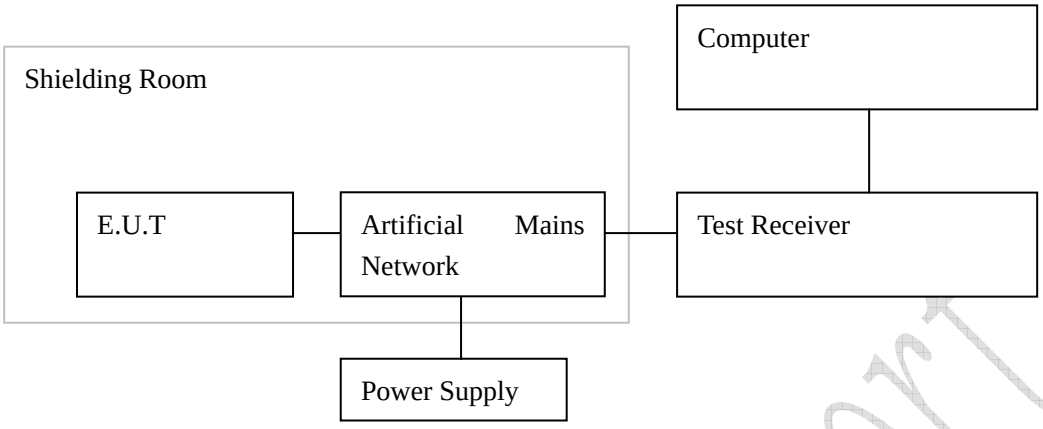
**Limit Level Construction:**
According to Part 15.107 (a)

**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 Configuration




**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 PC.

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:**

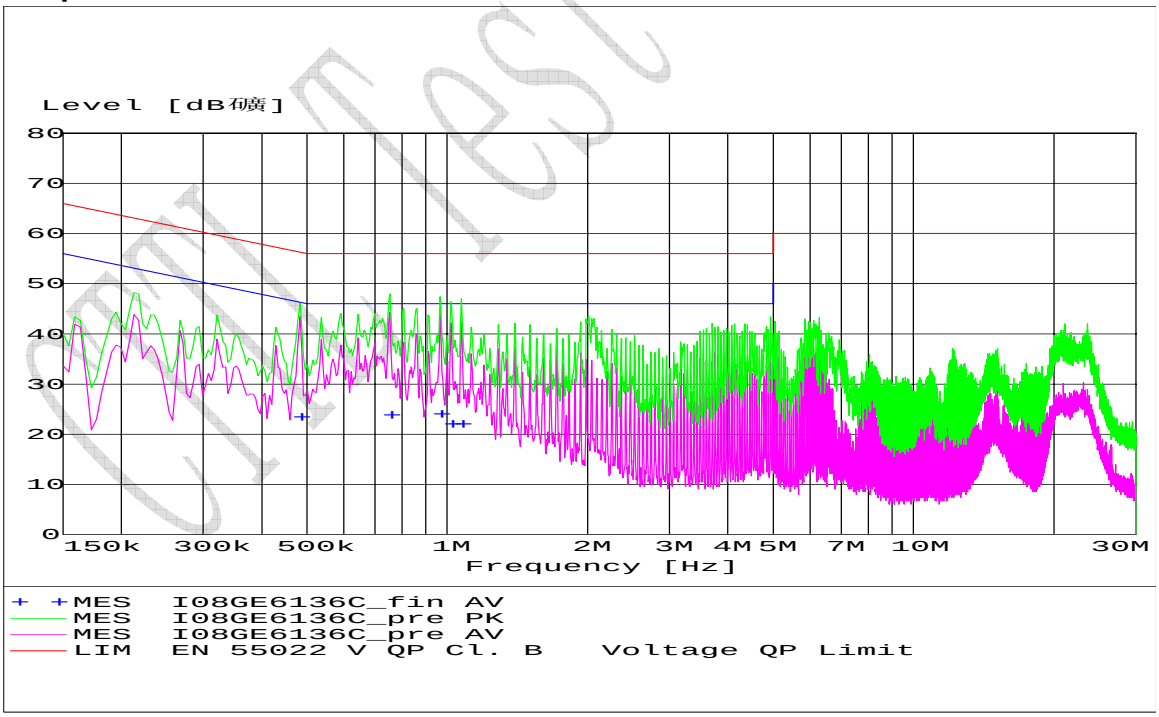
During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The AC power line of the Notebook was connected to the artificial mains network then to EMI receiver. The measurement was done by the automated test system.

**Note:** --

**Test Data:**

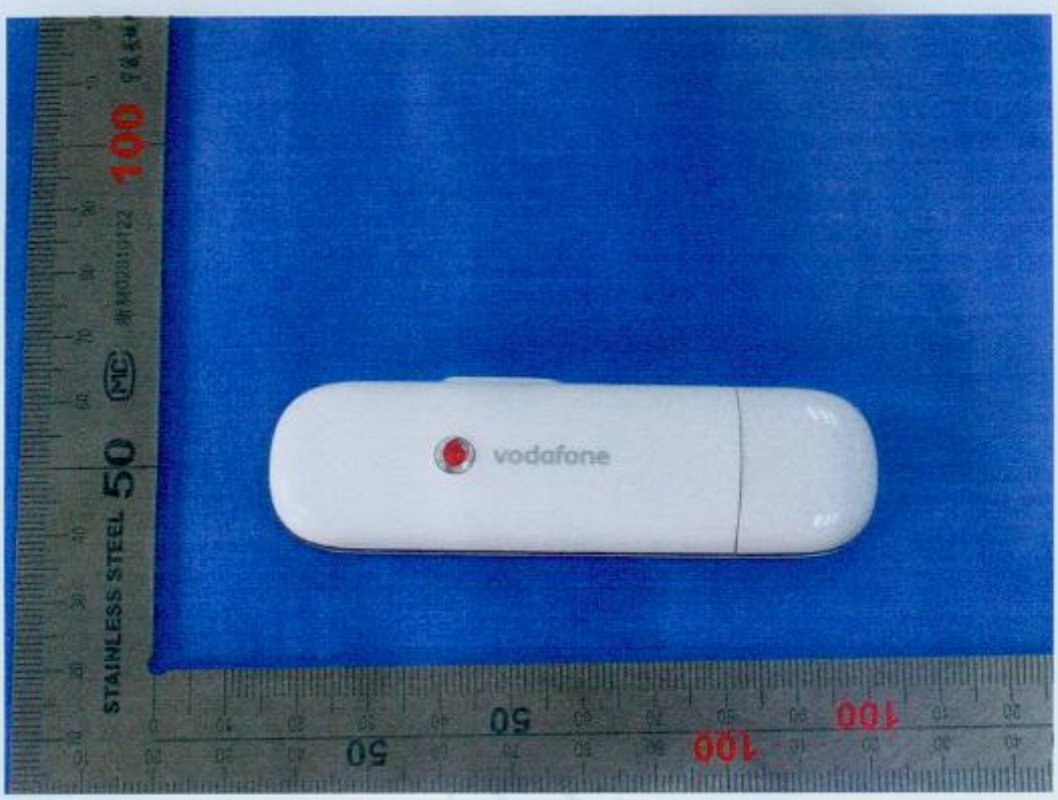
| Detector (QP/AV) | Frequency (MHz) | Level (dBμV) | Limit (dBμV) | Margin (dB) | Line | PE |
|---|---|---|---|---|---|---|
| AV | 0.483000 | 23.3 | 46 | 23 | N | GND |
| AV | 0.753000 | 23.8 | 46 | 22.2 | L1 | GND |
| AV | 0.964500 | 23.9 | 46 | 22.1 | N | GND |
| AV | 1.018500 | 22.0 | 46 | 24.0 | L1 | GND |
| AV | 1.072500 | 22.0 | 46 | 24.0 | N | GND |
| Remarks: -- | | | | | | |

**Graphical results:**




CE graphical results

# Annex A External Photos

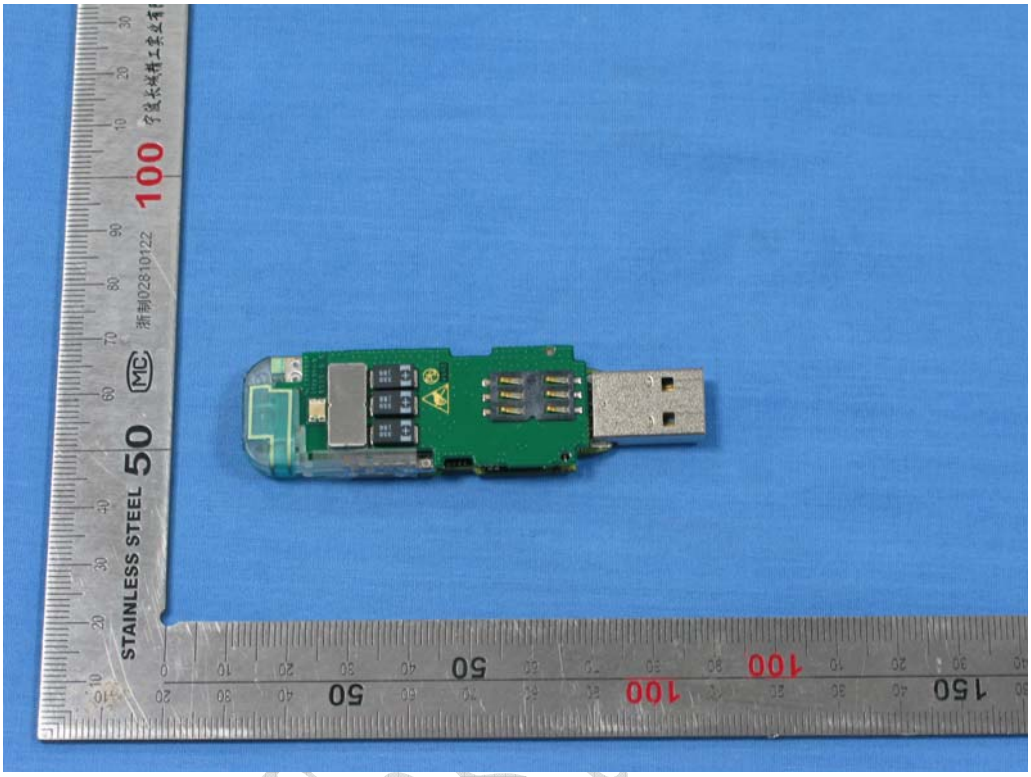



Front view

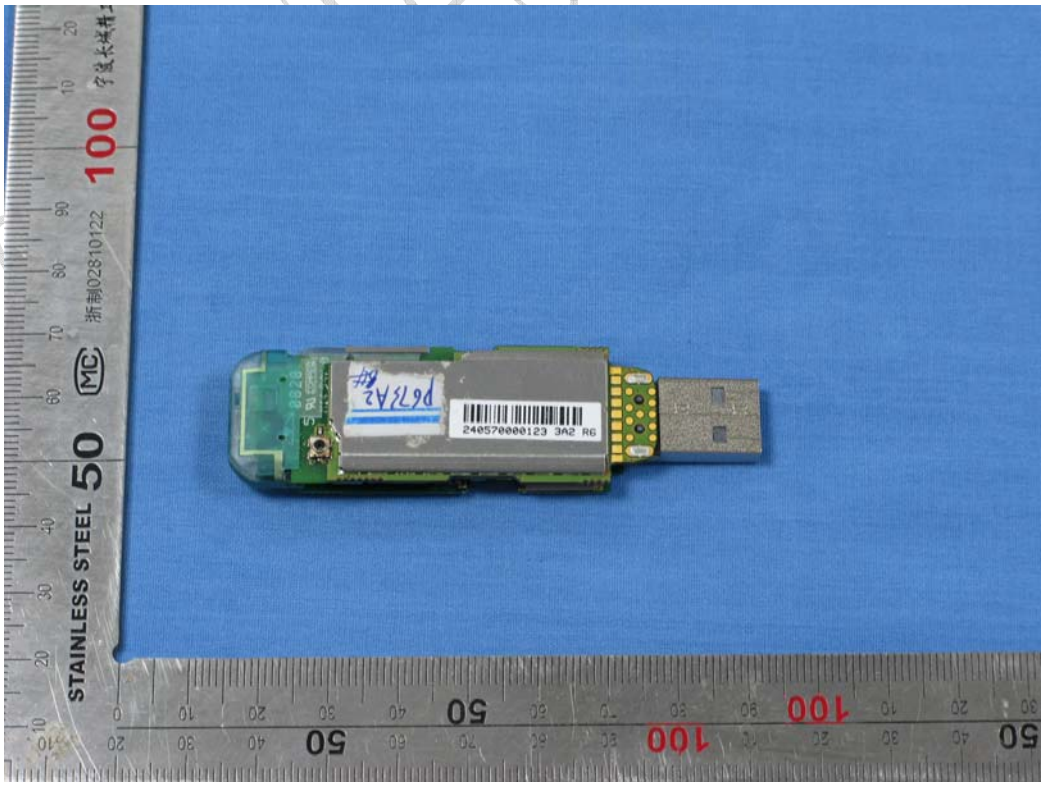

Back view


Cable

# Annex B Internal Photos




Main board (face)




Main board (back)

# ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

**The End of this Report**