



RF Exposure Evaluation Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : Wireless Access Terminal
BRAND NAME : ZTE
MODEL NAME : WF721
FCC ID : SRQ-WF721
STANDARD : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager

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1. Administration Data

1.1. Testing Laboratory

| | |
|---------------------------|--|
| Test Site | SPORTON INTERNATIONAL (KUNSHAN) INC. |
| Test Site Location | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958 |

1.2. Applicant

| | |
|---------------------|---|
| Company Name | ZTE CORPORATION |
| Address | ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China |

1.3. Manufacturer

| | |
|---------------------|---|
| Company Name | ZTE CORPORATION |
| Address | ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China |



2. Description of Equipment Under Test (EUT)

| Product Feature & Specification | |
|---|--|
| EUT Type | Wireless Access Terminal |
| Brand Name | ZTE |
| Model Name | WF721 |
| FCC ID | SRQ-WF721 |
| Wireless Technology and Frequency Range | GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz |
| Mode | • GSM • RMC 12.2Kbps Rel 99 |
| Antenna Type | PCB Antenna |
| HW Version | dekA |
| SW Version | WF721 1.0.1 |
| EUT Stage | Identical Prototype |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



3. Maximum RF average output power among production units

| Maximum Target Burst Average Power for Production Unit (dBm) | | |
|--|---------|----------|
| Mode / Band | GSM 850 | GSM 1900 |
| GSM (GMSK, 1 Tx slot) | 32.5 | 29 |

| Maximum Target Power for Production Unit (dBm) | | |
|--|--------------|---------------|
| Mode / Band | WCDMA Band V | WCDMA Band II |
| RMC 12.2K | 22.5 | 22.5 |

4. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|-------|-------|---------|--------------|--------|
| Band | GSM850 | | | GSM1900 | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| GSM | 32.15 | 32.12 | 32.02 | 28.60 | 28.78 | 28.59 |

<WCDMA Conducted Power>

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|--------------|-------|---------------|--------|--------|
| Band | WCDMA Band V | | | WCDMA Band II | | |
| Channel | 4132 | 4182 | 4233 | 9262 | 9400 | 9538 |
| Frequency | 826.4 | 836.4 | 846.6 | 1852.4 | 1880.0 | 1907.6 |
| RMC 12.2K | 21.86 | 22.09 | 22.07 | 22.14 | 21.72 | 22.09 |



5. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Table with 5 columns: Frequency range (MHz), Electric field strength (V/m), Magnetic field strength (A/m), Power density (mW/cm²), Averaging time (minutes). It is divided into two sections: (A) Limits for Occupational/Controlled Exposures and (B) Limits for General Population/Uncontrolled Exposure.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

S = PG / (4πR²)

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



6. Radio Frequency Radiation Exposure Evaluation

6.1. Standalone Power Density Calculations

| Band | Frequency (MHz) | Antenna Gain (dBi) | Maximum Power (dBm) | Average EIRP (mW) | Power Density at 20cm (mW/cm ²) | Limit (mW/cm ²) |
|----------------------|-----------------|--------------------|---------------------|-------------------|---|-----------------------------|
| GSM 850 (1 Tx slot) | 824.2 | 1.41 | 32.5 | 309.74 | 0.06 | 0.55 |
| GSM 1900 (1 Tx slot) | 1850.2 | 3.02 | 29.0 | 200.45 | 0.04 | 1.00 |
| WCDMA Band V | 826.4 | 1.41 | 22.5 | 246.04 | 0.05 | 0.55 |
| WCDMA Band II | 1852.4 | 3.02 | 22.5 | 356.45 | 0.07 | 1.00 |

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.