



RF Exposure Evaluation Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : Wireless Access Terminal
BRAND NAME : ZTE
MODEL NAME : WF723
FCC ID : SRQ-Z723EL
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.

A handwritten signature in black ink, reading "Mark Qu".

Approved by: Mark Qu / Manager

Sporton International (Kunshan) Inc.

No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China



Table of Contents

1. ADMINISTRATION DATA	4
1.1. Testing Laboratory	4
2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	5
3. MAXIMUM RF AVERAGE OUTPUT POWER AMONG PRODUCTION UNITS	6
4. RF EXPOSURE LIMIT INTRODUCTION	7
5. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	8
5.1. Standalone Power Density Calculation	8
APPENDIX A. PRODUCT EQUALITY DECLARATION	

**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA710507-01	Rev. 01	Initial issue of report	Sep. 20, 2017

**1. Administration Data****1.1. Testing Laboratory**

Testing Laboratory	
Test Site	Sporton International (Kunshan) Inc.
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958

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

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	WF723
FCC ID	SRQ-Z723EL
IMEI Code	863579030001274
Wireless Technology and Frequency Range	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz
Mode	AMR/RMC 12.2Kbps HSDPA HSUPA HSPA+ (uplink is not supported)
Antenna Type	Fixed External Antenna
HW Version	Z723ELHWV1.0
SW Version	WF723V1.0.0B01
EUT Stage	Identical Prototype
Remark:	
1. There are two antennas for EUT, one is Tx/Rx function, another is Rx function only.	
2. The report is in accordance with C2PC rule and the product equality declaration as Appendix A.	

**3. Maximum RF average output power among production units**

Mode	Average Power (dBm)		
	WCDMA Band V	WCDMA Band II	WCDMA Band IV
AMR 12.2Kbps	25.0	23.0	24.5
RMC 12.2Kbps	25.0	23.0	24.5
HSDPA Subtest-1	24.0	22.0	23.5
HSDPA Subtest-2	24.0	22.0	23.5
HSDPA Subtest-3	23.5	21.5	23.0
HSDPA Subtest-4	23.5	21.5	23.0
HSUPA Subtest-1	23.5	22.0	23.5
HSUPA Subtest-2	23.0	20.0	22.5
HSUPA Subtest-3	23.0	21.0	22.5
HSUPA Subtest-4	23.5	20.0	23.0
HSUPA Subtest-5	24.5	22.0	23.5



4. 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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

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:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band V	826.4	-1.3	25.0	23.70	0.23	234.42	0.05	0.55
WCDMA Band II	1852.4	1	23.0	24.00	0.25	251.19	0.05	1.00
WCDMA Band IV	1712.4	-0.5	24.5	24.00	0.25	251.19	0.05	1.00

Note: For conservativeness, the lowest 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.



Appendix A .Product Equality Declaration

ZTE CORPORATION**Product Change Description**

As the applicant of the below model, [ZTE Corporation] declares that the product,

[WF723 UMTS B2\B4\B5]

[ZTE Corporation]

is the variant of the initial certified product,

[Z723EL LTE B2\4\12\13]

[ZTE Corporation]

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed: Software open WCDMA Band 2/4/5 and disable LTE band 2/4/12/13

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO

Antenna changes: NO

PCB Layout changes: NO

Components on PCB changes: NO

LCD changes: NO

Speaker changes: NO

Camera changes: NO

Vibrator changes: NO

Bluetooth changes: NO

FM changes: NO

Other changes: NO

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO

Mechanical shell changes: NO

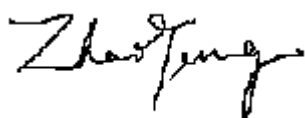
Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: yes, add 2nd source battery

AC Adaptor changes: NO

Earphone changes: NO



APPROVED BY: zhaoyang

Project Manager:

Date:2017-1-26

Company: ZTE Corporation

Address: B109, #889, Bibo Rd, Zhangjiang Hi-Tech Park, Shanghai,China

Tel:+86-21-68896840

Fax: +86-21-68896835