RF Exposure Evaluation Report

APPLICANT	**: ZTE CORPORATION**
EQUIPMENT	**: CDMA Wireless Access Terminal**
BRAND NAME	**: ZTE**
MODEL NAME	**: WF723S**
FCC ID	**: SRQ-WF723S**
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.

Mark Qu

Prepared by: Mark Qu / Manager

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA711301	Rev. 01	Initial issue of report	Feb. 14, 2017
FA711301	Rev. 02	Corrected the HW Version on Page 5	Feb. 21, 2017

1. Administration Data

1.1. Testing Laboratory

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

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	CDMA Wireless Access Terminal
Brand Name	ZTE
Model Name	WF723S
FCC ID	SRQ-WF723S
MEID Code	A000006A0F43CE
Wireless Technology and Frequency Range	CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz
Mode	· 1xRTT(BC0/BC1/BC10) · 1xEv-Do(Rev.0)/1xEv-Do(Rev.A) (BC1)
Antenna Type	Foldable Antenna
HW Version	WF723SHWV1.0
SW Version	WF723SV1.0.0B01
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

<CDMA>

Band	CDMA2000 BC0	CDMA2000 BC1	CDMA2000 BC10
	Average Power (dBm)		
RC1 SO55	24.50	24.50	24.50
RC3 SO55	24.50	24.50	24.50
RC3 SO32(F+SCH)	24.50	24.50	24.50
RC3 SO32(+SCH)	24.50	24.50	24.50
RTAP 153.6Kbps		24.50	
RETAP 4096Bits		24.50	

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/f2)	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/f2)	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)	Power Density / Limit
CDMA2000 BC10	817.9	-1.5	24.5	23.000	0.200	199.526	0.040	0.545	0.073
CDMA2000 BC0	824.7	-1.5	24.5	23.000	0.200	199.526	0.040	0.550	0.072
CDMA2000 BC1	1851.25	-1.7	24.5	22.800	0.191	190.546	0.038	1.000	0.038

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.