



MPE REPORT

Report No.: SRMC2009-H024-E0035

Product Name: GSM Wireless Phone

Product Model: ZTE WP623R

Applicant: ZTE Corporation

Manufacture: ZTE Corporation

Specification: FCC Part2.1093

OET Bulletin 65 Supplement C[June 2001]

FCC ID: Q78-ZTEWP623R

The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

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1. General information

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio Monitoring Center
State Radio Spectrum Monitoring and Testing Center
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Email: wangjf@srrc.org.cn

1.3 Applicant's details

Company: ZTE Corporation
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Country or Region: P.R.China
Grantee Code: Q78
Contacted person: Wang Lei
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Fax: +86-029-88723249
Email: wang.lei57@zte.com.cn

1.4 Manufacturer's details

Company: ZTE Corporation
Address: Zhongxing Bldg, Hi-Tech Park, NanShan, 518057
City: Shenzhen
Country or Region: P.R.China
Grantee Code: Q78
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Fax: +86-021-50801070
Email: li.dezi@zte.com.cn

1.5 Application details

Date of reception of test sample: 30th Nov 2009
 Date of test: 30th Nov 2009 to 9th Dec 2009

1.6 Reference specification

FCC Part2.1093, OET Bulletin 65 Supplement C [June 2001]

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM Wireless Phone
FCC ID	Q78-ZTEWP623R
Frequency range	GSM850: Tx:824~849MHz Rx:869~894MHz PCS1900: Tx:1850~1910MHz Rx:1930~1990MHz
Rated output power	GSM850:33.0dBm PCS1900:30.0dBm
E.R.P. & E.I.R.P.	E.R.P.: 30.4dBm E.I.R.P.: 27.1dBm
Modulation type	GMSK
Emission Designator	300KGXW
Duplex mode	FDD
Duplex spacing	GSM850:45MHz PCS1900:80MHz
Antenna type	External
Power Supply	Battery or charger
Rated Power Supply Voltage	5V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 4.75V Maximum: 5.25V
HW Version	f80A
SW Version	IS_64M_WP623PV1.0.0B01

1.7.2 EUT details

Name	Model	IMEI
GSM Wireless Phone	ZTE WP623R	352085024524618

1.7.3 Auxiliary equipment details

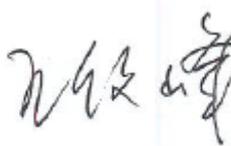
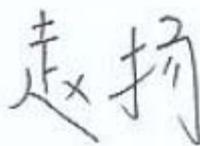
Equipment	Charger
Manufacturer	RUIDE
Model Number	STC-A22O50C35-C

Equipment	Battery
Manufacturer	BYD Co., Ltd
Model Number	Ni3612T30P3S534416
Capacity	1200mAh
Rated Voltage	3.6V

2. Test information

2.1 Summary of the calculation results

No.	Test case	FCC reference	Verdict
1	MPE Calculation	FCC Part2.1093, OET Bulletin 65 Supplement [June 2001]	Pass

This Test Report Is Issued by: Mr. Song Qizhu, Director of the test lab 	Checked By: 
Tested By: 	Issued date: 2010.01.06

2.2 Calculation result

2.2.1 Maximum Permissible Exposure (MPE)

Limit:

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

f = frequency in MHz *Plane-wave equivalent power density

Calculation procedure:

In accordance with 47CFR FCC Part 2.1091, the product has been defined as a mobile device where a distance of 0.2m normally can be maintained between the user and product.

Calculation formula:

$$\text{Power Density: } P_d (\text{W/m}^2) = E^2/377$$

$$E (\text{V/m}) = (30 \cdot P \cdot G)^{0.5}/d$$

E: Electric Field Strength (V/m)

P: Peak RF Output Power (W)

G: Antenna Numeric Gain (Numeric)

d: Separation Distance Between the Radiator and Human Body (m)

So the calculation formula can be changed as:

$$P_d = (30 * P * G) / (377 * d^2)$$

Calculation result:

GSM850:

Channel No.	Effective Radiated Power (E.R.P.) (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Verdict
128	1096.5	0.3577	0.549	Pass
189	1047.1	0.3416	0.558	Pass
251	1047.1	0.3416	0.566	Pass

PCS1900:

Channel No.	Effective Isotropic Radiated Power (E.I.R.P.) (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Verdict
512	478.6	0.0952	1.0	Pass
661	501.2	0.0997	1.0	Pass
810	512.9	0.1020	1.0	Pass