

Variant FCC RF Test Report

APPLICANT : ZTE CORPORATION

EQUIPMENT: WiMAX EVDO Dual Mode USB Modem

BRAND NAME : ZTE
MODEL NAME : U226

FCC ID : Q78-ZTEAD226

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

Tx/Rx FREQUENCY RANGE : CDMA2000 BC0 : 824.70 ~ 848.31 MHz /

869.70 ~ 893.31 MHz

Report No.: FG9N2716-01

CDMA2000 BC1: 1851.25 ~ 1908.75 MHz/

1931.25 ~ 1988.75 MHz

MAX. ERP/EIRP POWER : CDMA2000 BC0 : 0.09 W

CDMA2000 BC1: 0.13 W

This is a variant report which is only valid combined with the original test report. The product was received on Mar. 18, 2010 and completely tested on Mar. 25, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wน่ //Manager





SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: Q78-ZTEAD226



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N2716-01	Rev. 01	This is a variant report, which is based on Sporton Report Number FG9N2716 as Appendix D. The product equality declaration of ZTE for the differences is as Appendix C. It was retested and verified radiated spurious emission and ERP/EIRP tests for the differences.	Apr. 09, 2010

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SUMMARY OF TEST RESULT

Report Section	FCC Rule IC Rule Description		Description	Limit	Result	Remark
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 15.85 dB at 5636 MHz

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1 General Description

1.1 Applicant

ZTE CORPORATION

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

1.2 Manufacturer

ZTE CORPORATION

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

1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	WiMAX EVDO Dual Mode USB Modem				
Brand Name	ZTE				
Model Name	U226				
FCC ID	Q78-ZTEAD226				
Ty Fraguency	CDMA2000 BC0 : 824 MHz ~ 849 MHz				
Tx Frequency	CDMA2000 BC1 : 1850 MHz ~1910 MHz				
Dy Fraguency	CDMA2000 BC0 : 869 MHz ~ 894 MHz				
Rx Frequency	CDMA2000 BC1 : 1930 MHz ~ 1990 MHz				
Maximum ERP/EIRP	CDMA2000 BC0: 0.09 W (19.64 dBm)				
Waximum ERP/EIRP	CDMA2000 BC1: 0.13 W (21.25 dBm)				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	QPSK				
EUT Stage Identical Prototype					

Remark

- 1. For other wireless features of this EUT, the test report will be issued separately.
- This test report recorded only product characteristics and test results of PCS Licensed Transmitter (PCB).
- **3.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.					
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,					
Took Cita Lagation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.					
Test Site Location	TEL: +886-3-327-3456					
	FAX: +886-3-328-4978					
Test Site No.	Sporton Site No.	FCC/IC Registration No.				
rest site No.	03CH07-HY	TW1022/4086B-1				

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Acer	Z12	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

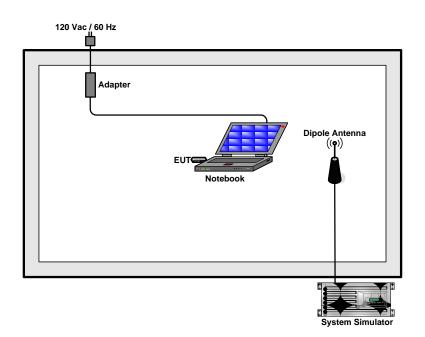
Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for CDMA2000 BC0.
- 30 MHz to 19000 MHz for CDMA2000 BC1.

Test Modes					
Band	Radiated TCs				
CDMA2000 BC0	■ 1xRTT Link Mode				
CDMA2000 BC1	■ 1xRTT Link Mode				

Note: The test matrix was based on the worst case in Sporton Report Number FG9N2716 shown in Appendix D.

2.2 Connection Diagram of Test System



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3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

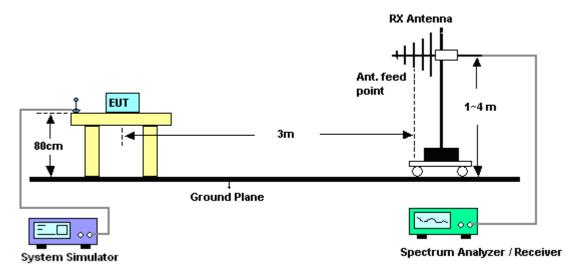
3.1.3 Test Procedures

- The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz,VBW= 3MHz, and peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 3. Effective Isotropic Radiated Power(EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP 2.15.

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3.1.4 Test Setup



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3.1.5 Test Result of ERP

CDMA2000 BC0 1xRTT RC3+SO55 Radiated Power ERP								
	Horizontal Polarization							
Frequency	Frequency LVL Correction Factor ERP ERP							
(MHz) (dBm) (dB) (dBm) (W)								
824.70	-11.03	32.04	18.86	0.08				
836.52	-11.82	32.91	18.94	0.08				
848.31	17.96	0.06						
		Vertical Polarization						
Frequency	LVL	Correction Factor	ERP	ERP				
(MHz)	(MHz) (dBm) (dB) (dBm) (W)							
824.70	-14.31	36.10	19.64	0.09				
836.52	-14.75	34.41	17.51	0.06				
848.31	-14.84	34.65	17.66	0.06				

^{*} ERP = LVL (dBm) + Correction Factor (dB) -2.15

3.1.6 Test Result of EIRP

CDMA2000 BC1 1xRTT RC3+SO55 Radiated Power EIRP								
	Horizontal Polarization							
Frequency LVL Correction Factor EIRP EIRP								
(MHz) (dBm) (dB) (dBm) (W)								
1851.25	-20.06	41.24	21.18	0.13				
1880.00	-20.21	41.46	21.25	0.13				
1908.75 -19.98 41.21 21.23 0								
		Vertical Polarization						
Frequency	LVL	Correction Factor	EIRP	EIRP				
(MHz)	(dBm)	(dB)	(dBm)	(W)				
1851.25	-24.93	41.52	16.59	0.05				
1880.00	-26.11	43.10	16.99	0.05				
1908.75	-27.41	42.73	15.32	0.03				

^{*} EIRP = LVL (dBm) + Correction Factor (dB)

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

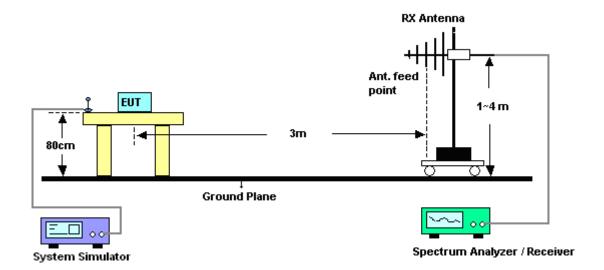
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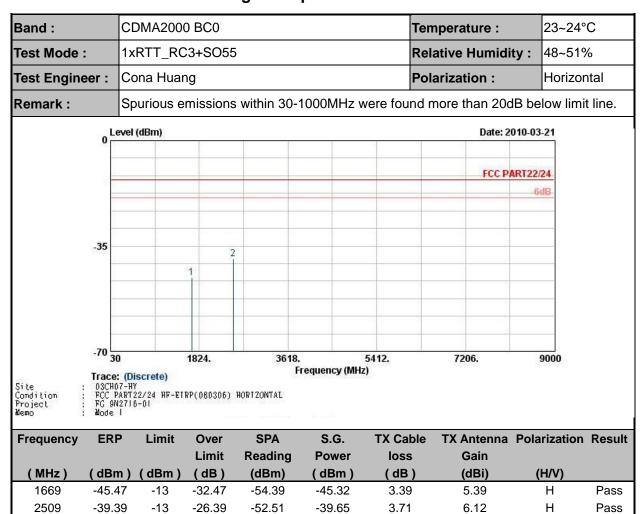
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3.3.4 Test Setup



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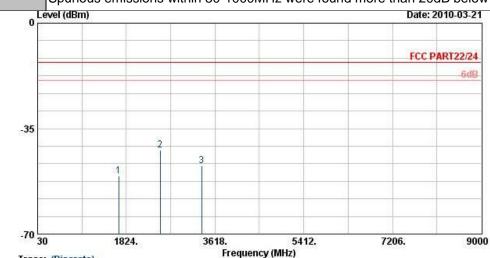
3.3.5 Test Result of Field Strength of Spurious Radiated



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-			
Band :	CDMA2000 BC0	Temperature :	23~24°C
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Vertical

Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark:



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 9N2716-01
Mode I

Site Condition Project Memo

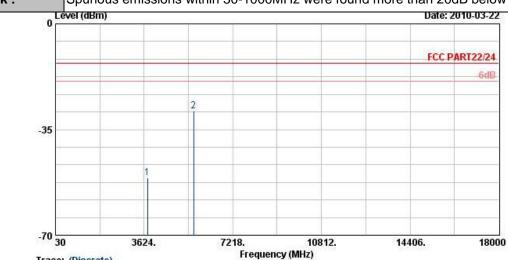
Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-50.83	-13	-37.83	-61.91	-50.68	3.39	5.39	V	Pass
2509	-42.07	-13	-29.07	-55.22	-42.33	3.71	6.12	V	Pass
3345	-47.31	-13	-34.31	-62.89	-50.03	3.13	8.00	V	Pass

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Band :	CDMA2000 BC1	Temperature :	23~24°C
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Horizontal

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 9N2716-01
Mode 1

	FIDD	1.114	•	004	0.0	TV O III	TV 4	Balant adam	D
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	IX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-50.91	-13	-37.91	-65.7	-53.43	4.88	7.40	Н	Pass
5636	-28.85	-13	-15.85	-50.07	-32.11	5.55	8.81	Н	Pass

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FCC RF Test Report

Band :		CDMA2000 BC1				Ter	Temperature :		23~24°C	
Test Mode :		1xRTT_RC3+SO55					Relative Humidity: 48~51%			
Test Engineer :		Cona Huang					Polarization : Ver			
Remark :			emissions	within 30-	vere found i	more than 20d	B below limi	t line.		
	0 [evel (dBm)					Date: 2	010-03-22		
							FCC P	ART22/24		
	1							6dB		
	-35			2						
			1							
-70 30 3624. 7218. 10812. Trace: (Discrete) Site : 03CH07-HY Condition : FCC PART22/24 HF-EIRP(080306) YERTICAL Project : FG 9M2716-01 Memo : Mode							14406.	18000		
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result	
			Limit	Reading	Power	loss	Gain			
(MHz)	(dBr	, , ,	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)		
3760	-49.8	36 -13	-36.86	-65.57	-52.89	4.88	7.91	V	Pass	

-41.77

5.55

9.77

Pass

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5636

-37.55

-13

-24.55

-59.73

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 31, 2009	Oct. 30, 2010	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 04, 2009	Dec. 03, 2010	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec.09,2009	Dec. 08, 2010	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32dB. GAIN	Mar. 27, 2009	Mar. 26, 2010	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 KHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH07-HY)
System Simulator	R&S	CMU200	117997	N/A	May 14, 2009	May 13, 2011	Radiation (03CH07-HY)

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
Cable Loss Calibration	0.25	Normal (k=2)	0.13	
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41	U-Shape	0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54			

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	Uncertai					
Contribution	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)	
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10	
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85	
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25	
Receiver Correction	±2.00	Rectangular	1.15	1	1.15	
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87	
Site Imperfection	±2.80	Triangular	1.14	1	1.14	
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244	
Combined Standard Uncertainty Uc(y)	2.36					
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))		4.7	72			

SPORTON INTERNATIONAL INC.

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6 Certification of TAF Accreditation



Certificate No.: L1190-100316

Report No.: FG9N2716-01

財團法人全國認證基金會 Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2010 to January 09, 2013

Accredited Scope : Testing Field, see described in the Appendix

Specific Accreditation : Accreditation Program for Designated Testing Laboratory

Program for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory

Accreditation Program for BSMI Mutual Recognition

Arrangment with Foreign Authorities

Jay-San Chen

President, Taiwan Accreditation Foundation

Date: March 16, 2010

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

SPORTON INTERNATIOINAL INC.

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP9N2716-01 as below.

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Appendix C. Product Equality Declaration

ZTE中兴

Product Change Description

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

[U226 EVDO sub-board xf9C] [ZTE Corporation]

is the variant of the initial certified product of,

[AD226 EVDO sub-board xf9B] [ZTE Corporation]

The changes of the variant model are as following:

- $1\,{}_{\sim}$ On the EVDO sub-board, we added two 5pF capacitances on the USB HUB (uplink) data cable.
- $2\sqrt{N}$ On the EVDO sub-board ,We added one NTC, two resistors and one capacitance to fast stabilize the control of TCXO and reduce the time of searching and entering the network.
- 3. On the EVDO sub-board, we added a series inductor to achieve better performance.
- 4. On the EVDO sub-board, we delete the resistors and capacitances connected the shield of USB connecter to GND for ESD.
- 5. In the temperature test, We added a heat insulation material to decrease the temperature of shell.

Except those changes above, the others are remained as previous model.

6. The pattern of main antenna has been changed a little, but the form of main antenna is still monopole.

Signature:

Date:2010-03-24

Company: ZTE Corporation

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SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: Q78-ZTEAD226 Page Number : C1 of C1
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Appendix D. Original Report

Please refer to Sporton Report Number FG9N2716 as below.

SPORTON INTERNATIONAL INC.

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