

# FCC PART 22H MEASUREMENT AND TEST REPORT

For  
**ZTE Corporation**

ZTE Plaza, Keji Road South, Hi-tech Park, Nanshan District,  
Shenzhen, Guangdong, China 518057

**FCC ID: Q78- ZTEC362**  
**Model: ZTE C362**

<b>Report Type:</b> Original Report	<b>Product Type:</b> CDMA 1X Digital Mobile Phone
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<b>Report No.:</b> ZTEB0807254-22H	
<b>Report Date:</b> 2008-07-16	
<b>Reviewed By:</b> Lab Manager: David Gong <i>David Gong</i>	
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## 1 GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

The ZTE Corporation's product, FCC ID: Q78-ZTEC362 or the "EUT" as referred to in this report is a CDMA 1X Digital Mobile Phone, which measures approximately 108.2mm(L) x47mm(W) x 15mm(H) The frequency range is CDMA 800MHz Cellular (UL824MHz ~ 849 MHz, DL 869 MHz ~ 894 MHz)

\* The test data gathered are from production sample, serial number: 290727810211, provided by the manufacturer.

Antenna Frequency Range: 824-894 MHz

Connector Type: Crimp Connection

Maximum Gain: 2dB

Antenna Type/Pattern: Monopole/ Omni directional

### 1.2 EUT Photo (picture of product)



*Additional Photos in Exhibit C*

### 1.3 Objective

This type approval report is prepared on behalf of *ZTE Corporation* in accordance with Part 2, Subpart J, and Part 22 Subpart H of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristic, occupied bandwidth, spurious emission at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

### 1.4 Related Submittal(s)/Grant(s)

FCC Part15B JBP Submission FCC ID: Q78-ZTEC362.

### 1.5 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Applicable Standards: TIA-98-E, TIA603-C, ANSI C63.4-2003.

All radiated and conducted emissions measurement was performed at ZTE Corporation Reliability Testing Center. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### 1.6 Test Facility

ZTE Corporation Reliability Testing Center

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

Tel: +86-755-26770345

Fax: +86-755-26770347

Test site at ZTE Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC).

The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 25, 2005. ZTE Corporation Lab's FCC Registration Number is 373926.

## 2 SYSTEM TEST CONFIGURATION

### 2.1 Justification

The EUT was configured for testing according to TIA/EIA-603 C.

The final qualification test was performed with the EUT operating at normal mode.

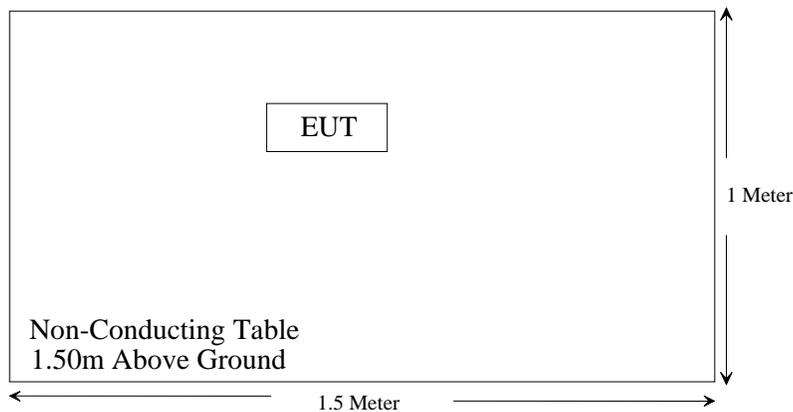
### 2.2 Equipment Modifications

No modifications were made to the EUT.

### 2.3 Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Agilent	Wireless communication test set	8960 E5515C	GB42431673
ZTE	Adaptor	STC-A22050U8-C	100804271900338

### 2.4 Test Setup Block Diagram



### 3 SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§ 2.1047	Modulation Characteristics	N/A *
§ 2.1053	Spurious Radiated Emissions	Compliant
§2.1093	RF Exposure	SAR report**
§ 2.1046, § 22.912 (d)	RF Output Power	Compliant
§ 2.1049 § 22.917 § 22.905	Out of Band Emission, Occupied Bandwidth	Compliant
§ 2.1051, § 22.917	Spurious Emissions at Antenna Terminals	Compliant
§ 2.1055 (a) § 2.1055 (d) § 22.355	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917	Band Edge	Compliant

**Note:**

\* There are no modulation requirements for FCC Part 22H therefore it is not applicable

\*\*Please refer to SAR test report provided by Shenzhen Electronic Product Quality Testing Center (Report number: SAR08-063).

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## **4 §2.1047 - MODULATION CHARACTERISTIC**

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### **4.1 Applicable Standard**

Requirement: FCC § 2.1047(d). As part 22H has not specific requirement for CDMA modulation, therefore modulation characteristic is not presented.

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## 5 §2.1053 - SPURIOUS RADIATED EMISSIONS

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### 5.1 Applicable Standard

Requirements: CFR 47, § 2.1053.

### 5.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a 50 ohms load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \log (\text{TXpwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

Measurement bandwidth (RBW) for 30MHz to 1000 MHz: 100 kHz

Measurement bandwidth (RBW) for 1000 MHz to 12750 MHz: 1MHz

### 5.3 Test Equipment List and Details

Manufacturers	Description	Model	Serial Number	Cal. Dates
R&S	EMI Test Receiver 20Hz~26.5GHz	ESI26	100058	2007-10-25
R&S	Log periodic Antenna 30~3000MHz	HL562	100022	2008-3-7
R&S	Double-Ridged Waveguide Horn Antenna 1~18GHz	HF906 RX	100032	2007-10-10
R&S	Filters	TS-FILT	N/A	2007-10-25
R&S	Cable Set Up to 18Ghz	RF Cable	N/A	2007-10-25
Albatross	Anechoic Chamber 3m site	3m site	N/A	2008-5-14
R&S	Software	ES-K1	N/A	N/A
SCHWARZBECK	VHF-UHF Broad band Antenna 30-1000MHz	VUBA 9117	173	2008-4-11
R&S	Double-Ridged Waveguide Horn Antenna 1~18GHz	HF906 TX	100446	2007-9-20
R&S	Signal generator 10MHz~20GHz	SMR20	100098	2007-10-16
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-18

\* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

### 5.4 Environmental Conditions

<b>Temperature:</b>	20° C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	1018mbar

\* The testing was performed by Bob Xiong on 2008-07-14

## 5.5 Test Result

Worst case reading as follows:

Part22H:

### Test without headphones

27.07 dB at 2907.816 MHz

*TX Spurious Emission scans 30 MHz – 3GHz (TX) Middle channel*

Indicated		Test Ant. Polar (H/V)	Substituted		Antenna Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Amp. (dBuV/m)		Frequency (MHz)	Level (dBm)					
2907.816	60.37	V	2907.816	-41.37	7.95	4.5	-40.07	-13	27.07
879.479	61.96	H	879.479	-35.13	-1.24	2.5	-41.02	-13	28.02
2915.832	59.40	H	2915.832	-44.71	7.95	4.6	-43.51	-13	30.51
879.479	58.82	V	879.479	-38.37	-1.24	2.5	-44.26	-13	31.26

35.25dB at 17967.94MHz

*TX Spurious Emission scan 3GHz – 20 GHz (TX) Middle channel*

Indicated		Test Ant. Polar (H/V)	Substituted		Antenna Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Amp. (dBuV/m)		Frequency (MHz)	Level (dBm)					
17967.94	63.59	H	17967.94	-42.85	8.95	12.2	-48.25	-13	35.25
14450.90	57.59	H	14450.90	-47.73	9.65	10.9	-51.13	-13	38.13
17889.78	63.21	V	17889.78	-47.72	8.95	12.2	-53.12	-13	40.12
10490.98	51.29	V	10490.98	-56.94	11.35	9.1	-56.84	-13	43.84

**Test with headphones**

28.98 dB at 2779.559MHz

*TX Spurious Emission scans 30 MHz – 3GHz (TX) Middle channel*

Indicated		Test Ant. Polar (H/V)	Substituted		Antenna Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Amp. (dBuV/m)		Frequency (MHz)	Level (dBm)					
2779.559	58.87	V	2779.559	-43.38	7.95	4.4	-41.98	-13	28.98
879.479	60.46	H	879.479	-36.63	-1.24	2.5	-42.52	-13	29.52
879.479	60.44	V	879.479	-36.75	-1.24	2.5	-42.64	-13	29.64
2995.992	59.08	H	2995.992	-45.03	7.95	4.6	-43.83	-13	30.83

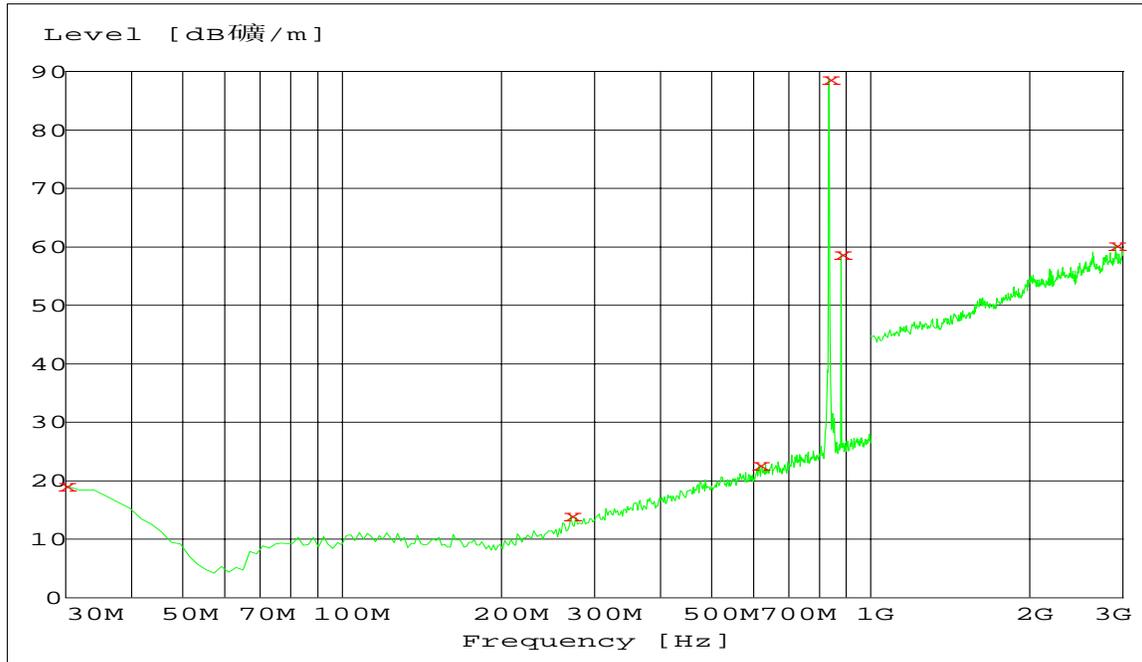
37.65 dB at 18228.46MHz

*TX Spurious Emission scan 3GHz – 20 GHz (TX) Middle channel*

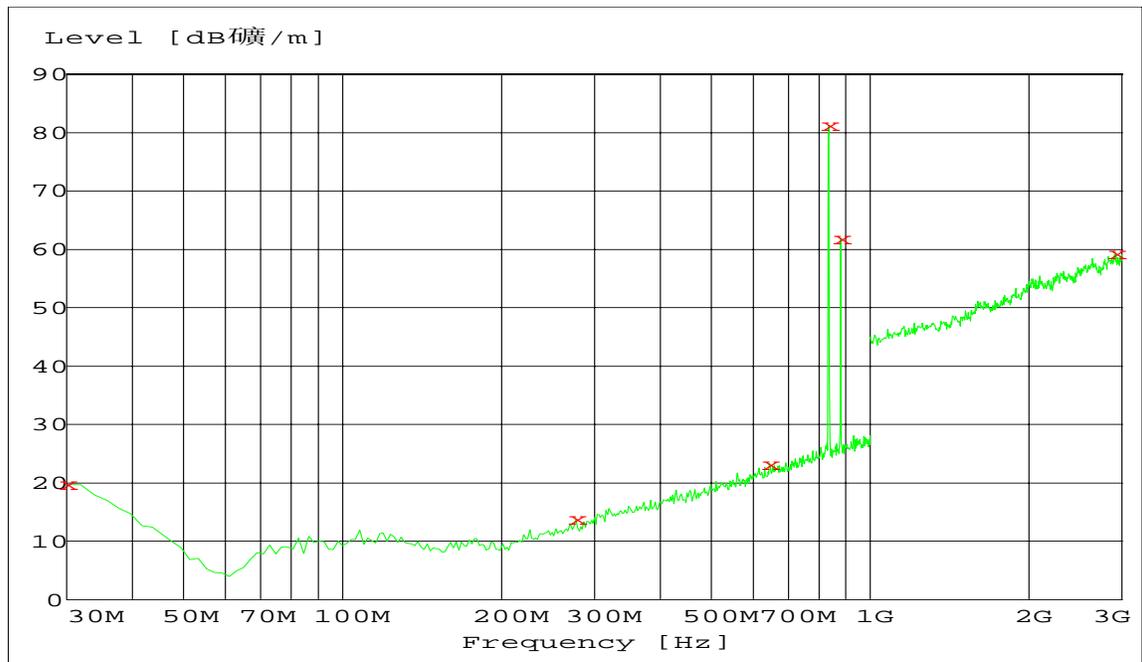
Indicated		Test Ant. Polar (H/V)	Substituted		Antenna Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Amp. (dBuV/m)		Frequency (MHz)	Level (dBm)					
18228.46	63.24	V	18228.46	-42.75	6.45	12.2	-50.65	-13	37.65
5589.178	46.06	V	5589.178	-52.55	9.05	6.4	-52.05	-13	39.05
17889.78	63.08	H	17889.78	-47.85	8.95	12.2	-53.25	-13	40.25
10438.88	51.81	H	10438.88	-56.42	11.35	9.1	-56.32	-13	43.32

Test without headphones

(30 MHz~3 GHz)Vertical

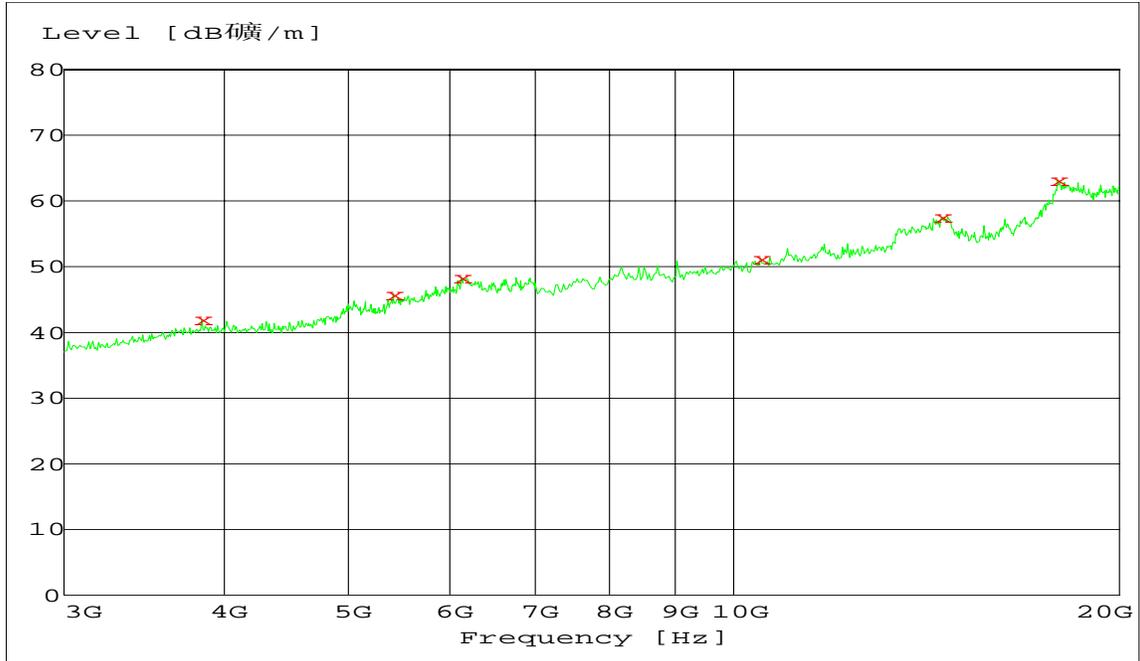


(30 MHz~3 GHz)Horizontal



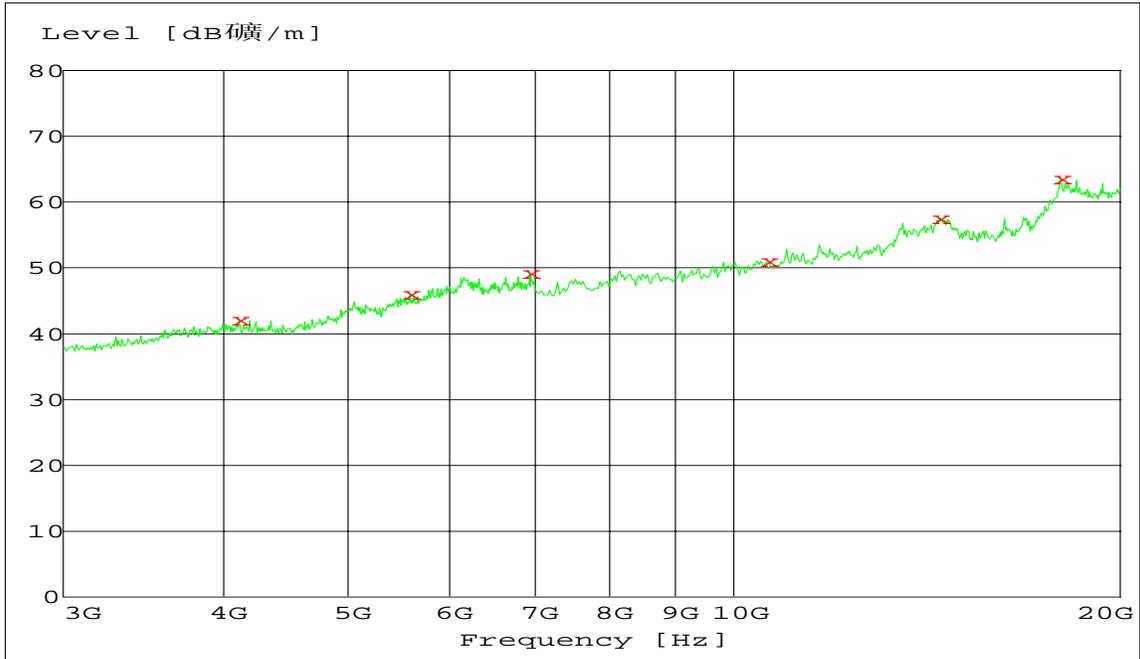
**(3~20 GHz)Vertical**

Level (dB $\mu$ V/m)



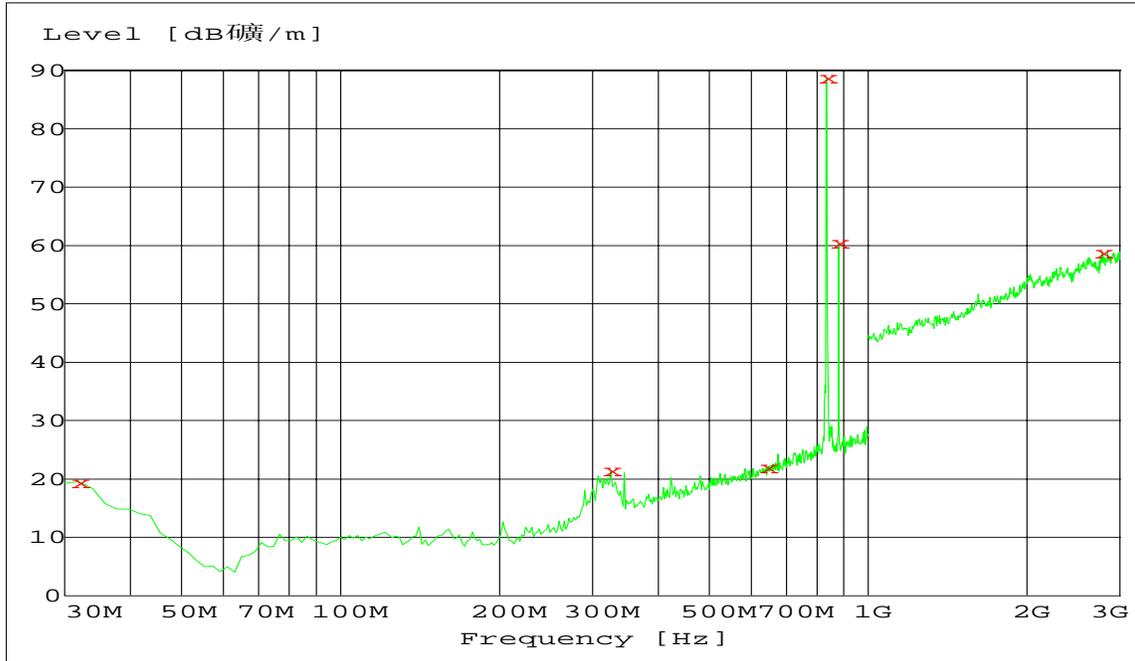
**(3 ~20 GHz)Horizontal**

Level (dB $\mu$ V/m)

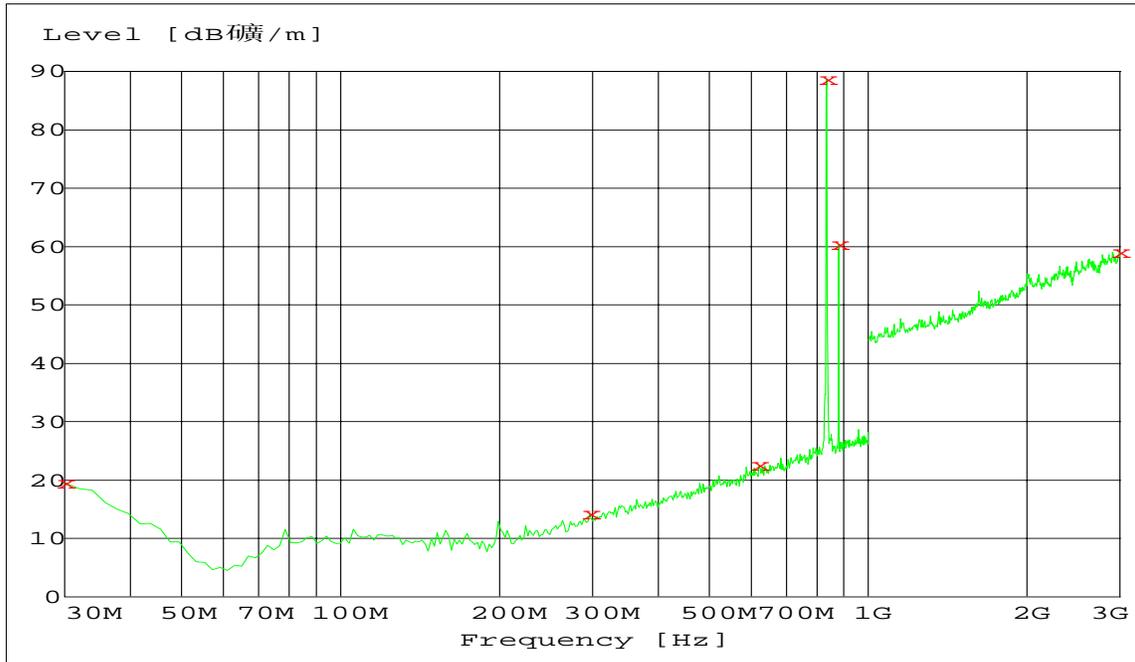


Test with headphones

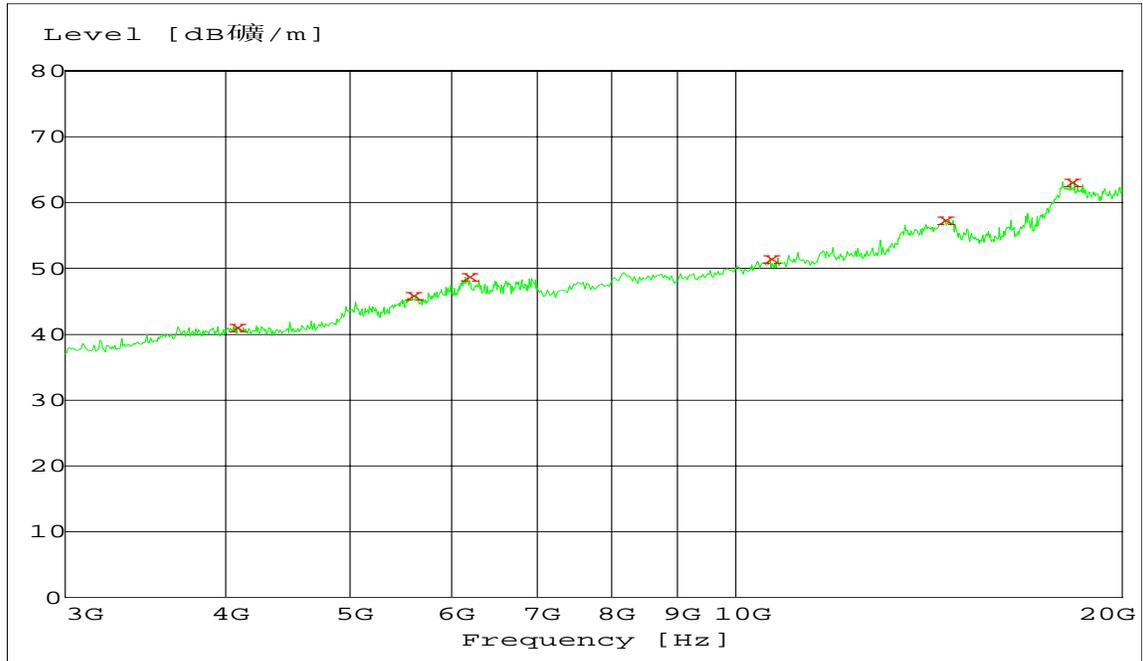
(30 MHz~3 GHz)Vertical



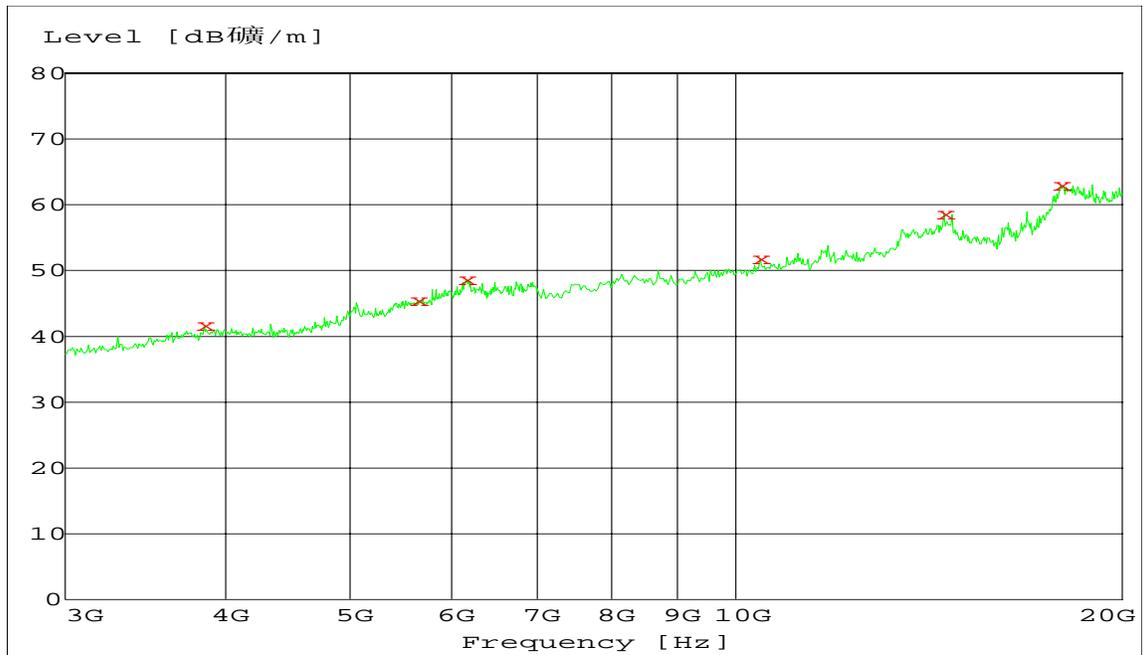
(30 MHz~3 GHz)Horizontal



**(3 ~20 GHz) Vertical**



**(3 ~20 GHz)Horizontal**



## 6 §2.1046, §22.913(a) – RF OUTPUT POWER

### 6.1 Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

### 6.2 Test Procedure

Antenna Port Conducted RF Power:

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

ERP:

TIA/EIA 603-C Section 2.2.17

### 6.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Dates
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-19
Agilent	Spectrum Analysis	E4405B	MY41440292	2008-01-19

\* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

### 6.4 Environmental Conditions

<b>Temperature:</b>	20° C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	1018mbar

\* The testing was performed by Bob Xiong on 2008-07-14

## 6.5 Test Results

### Conducted RF Power

Channel	Radio Configuration and Conducted Power (dBm)				
	RC1	RC2	RC3	RC4	RC5
Low	23.24	23.35	23.79	23.86	23.72
Mid	23.52	23.45	23.25	23.21	23.35
High	23.34	23.42	23.36	23.28	23.38
SO	SO2	SO9	SO55	SO55	SO55

The EUT antenna is non-retractable antenna with 0dBi gain, VSWR<2.0 and vertical polarization.

### ERP Test Results

Frequency (MHz)	Substitution Reading (dBm)	Substitution Antenna Gain	Substation Cable Loss (dB)	ERP (dBm)
836.52	23.86	0.0	2.30	21.56

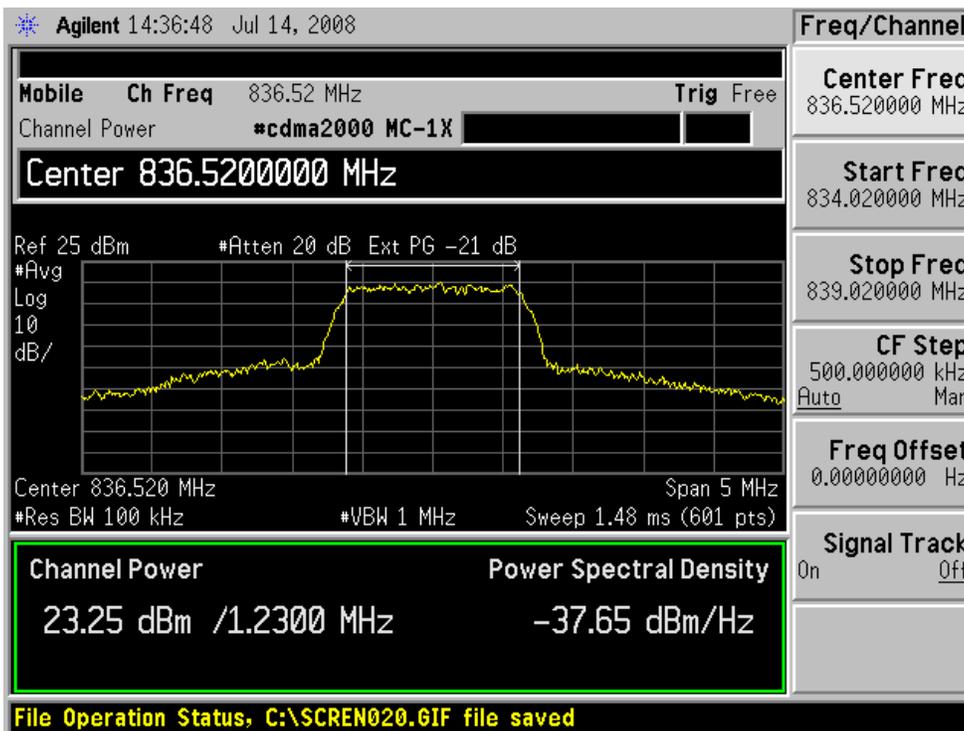
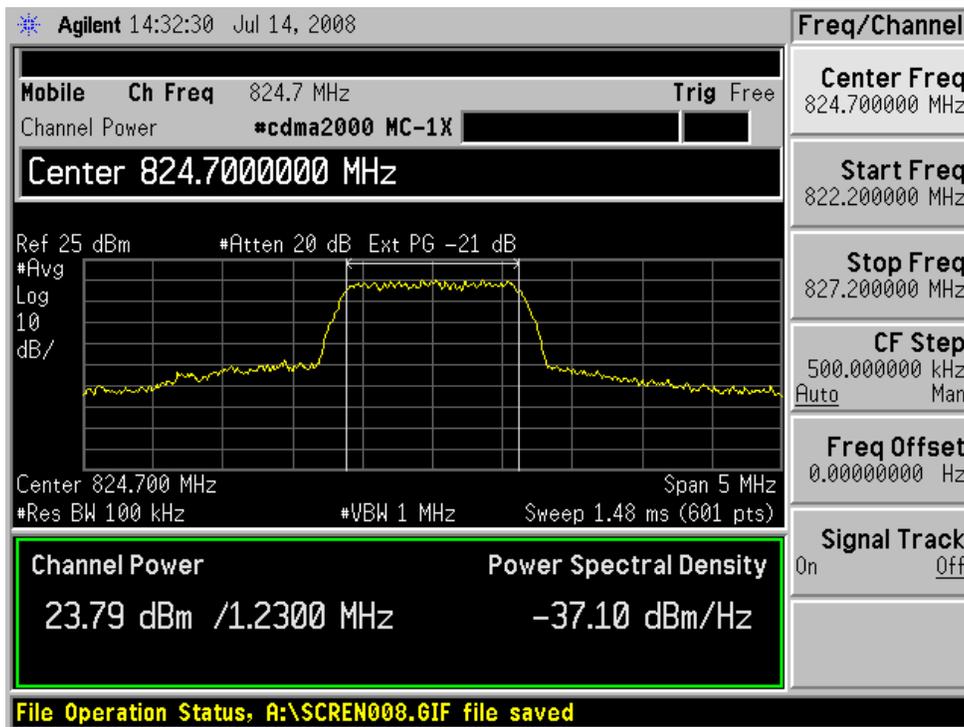
Sample calculation:

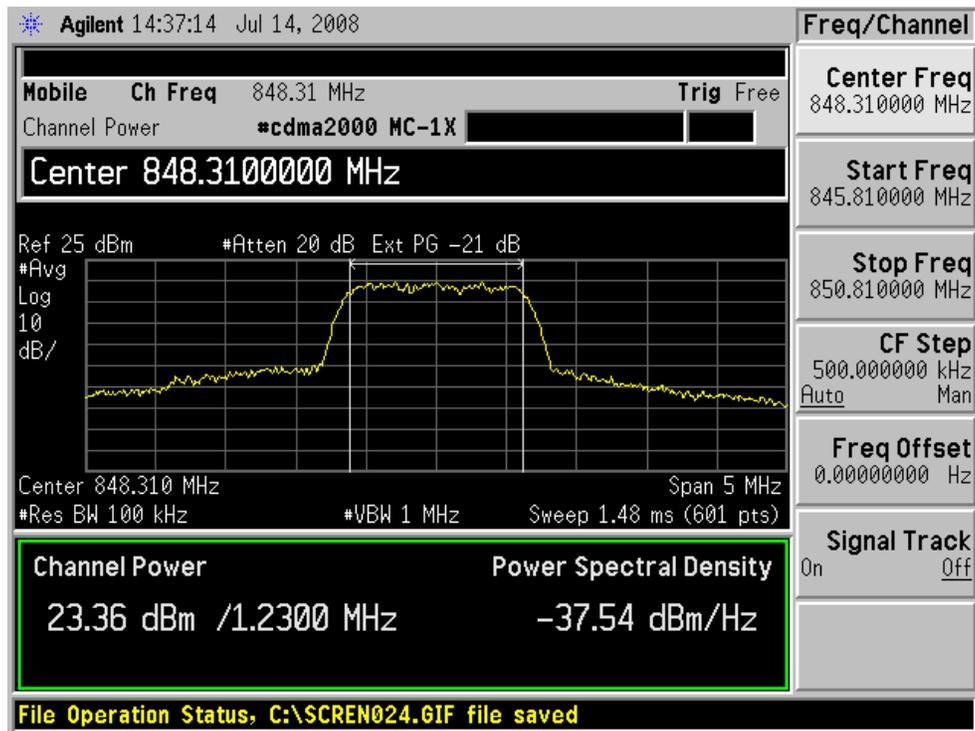
Absolute level=substitution reading+ antenna gain - cable loss

For example:

$21.56=23.86+0.0-2.3$

Plots of Conducted Output RF Power for RC3





## 7 §2.1049, §22.917, §22.905 - OCCUPIED BANDWIDTH

### 7.1 Applicable Standard

Requirements: CFR 47, Section 2.1049, Section 22.901, Section 22.917.

### 7.2 Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 30 kHz and the 26 dB & 99% bandwidth was recorded.

### 7.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Dates
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-19
Agilent	Spectrum Analysis	E4405B	MY41440292	2008-01-19

\* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

### 7.4 Environmental Conditions

Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

\* The testing was performed by Tina Bob Xiong 2008-07-14

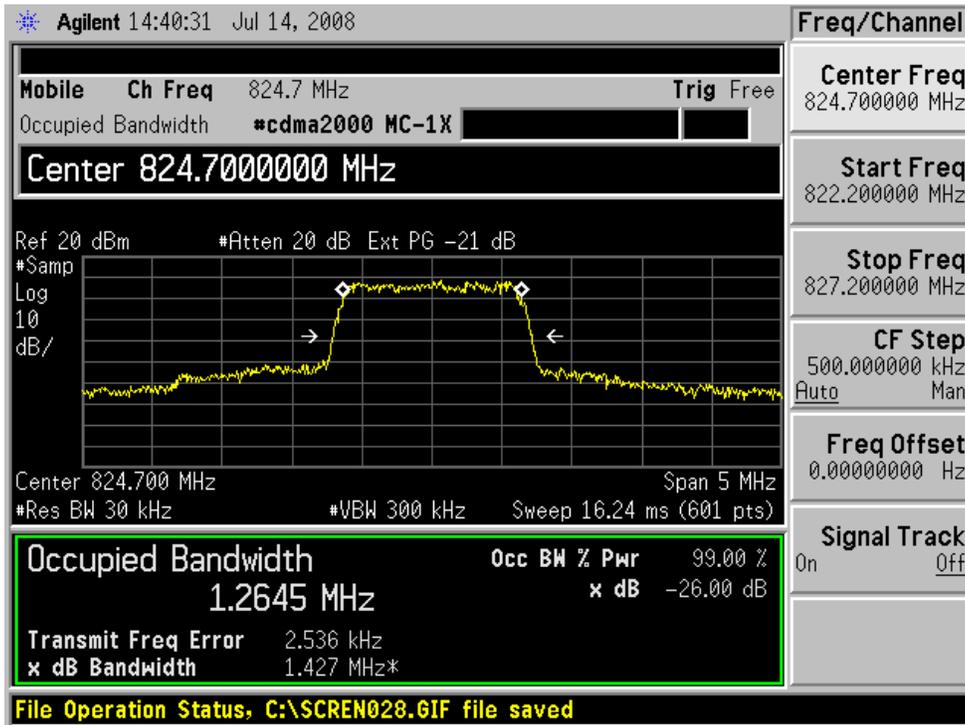
### 7.5 Test Results

#### Part 22:

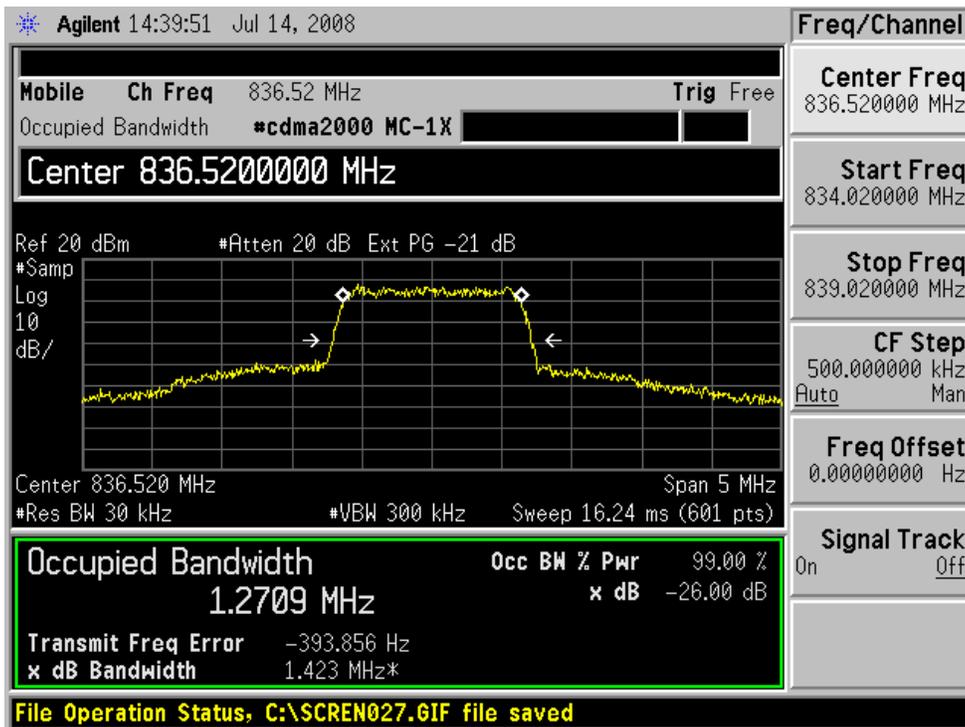
Channel	Frequency (MHz)	99% Bandwidth (MHz)	-26 dB Bandwidth (MHz)
Low	824.70	1.2645	1.427
Mid	836.52	1.2709	1.423
High	848.31	1.2675	1.419

Please refer to the following plots.

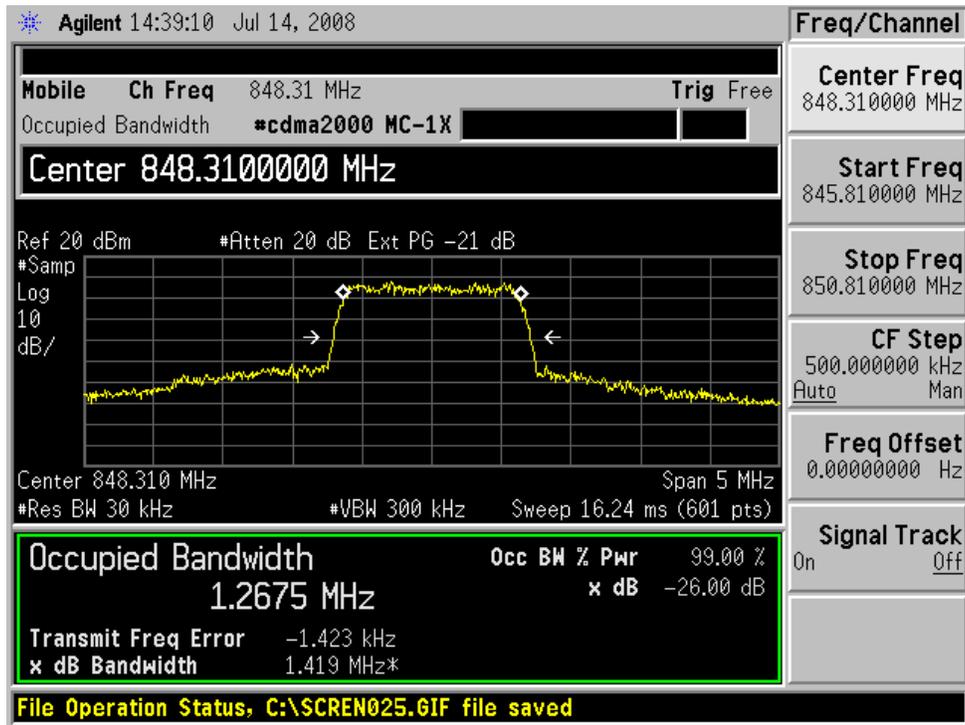
Low Channel



Mid Channel



High Channel



## 8 §2.1051, §22.917 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### 8.1 Applicable Standard

Requirements: CFR 47, § 2.1051. § 22.917.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

### 8.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.

### 8.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Dates
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-19
Agilent	Spectrum Analysis	E4405B	MY41440292	2008-01-19

\* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

### 8.4 Environmental Conditions

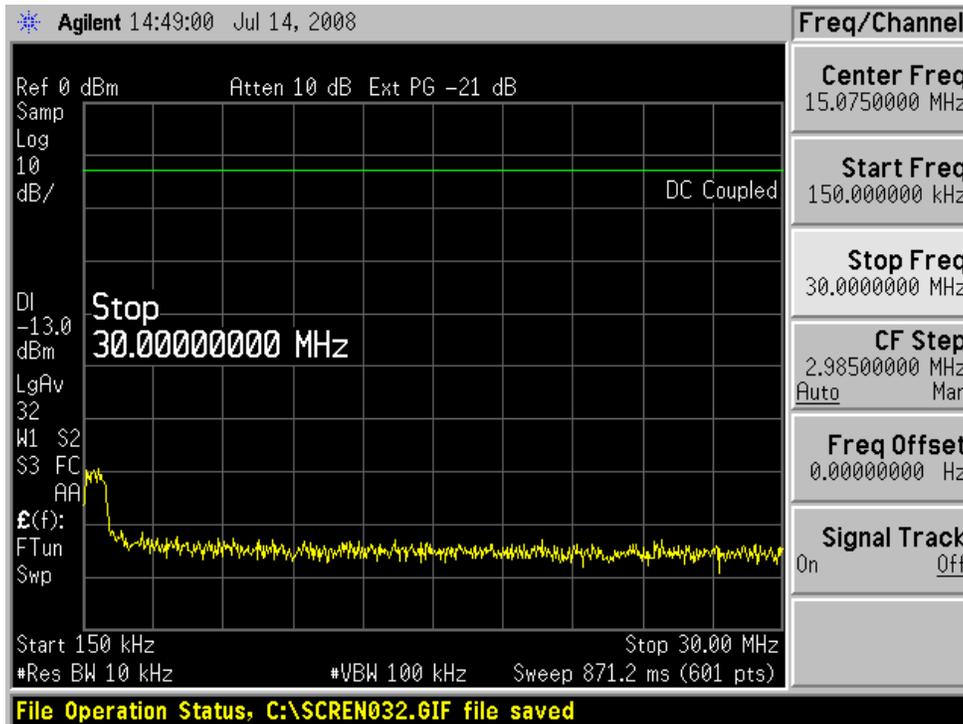
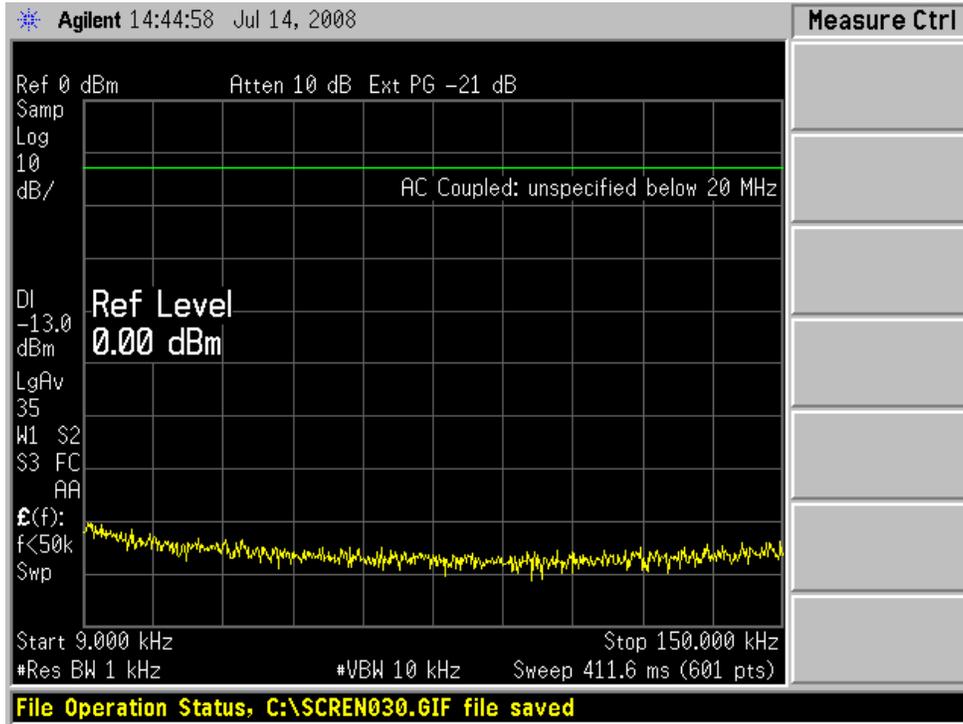
<b>Temperature:</b>	20° C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	1018mbar

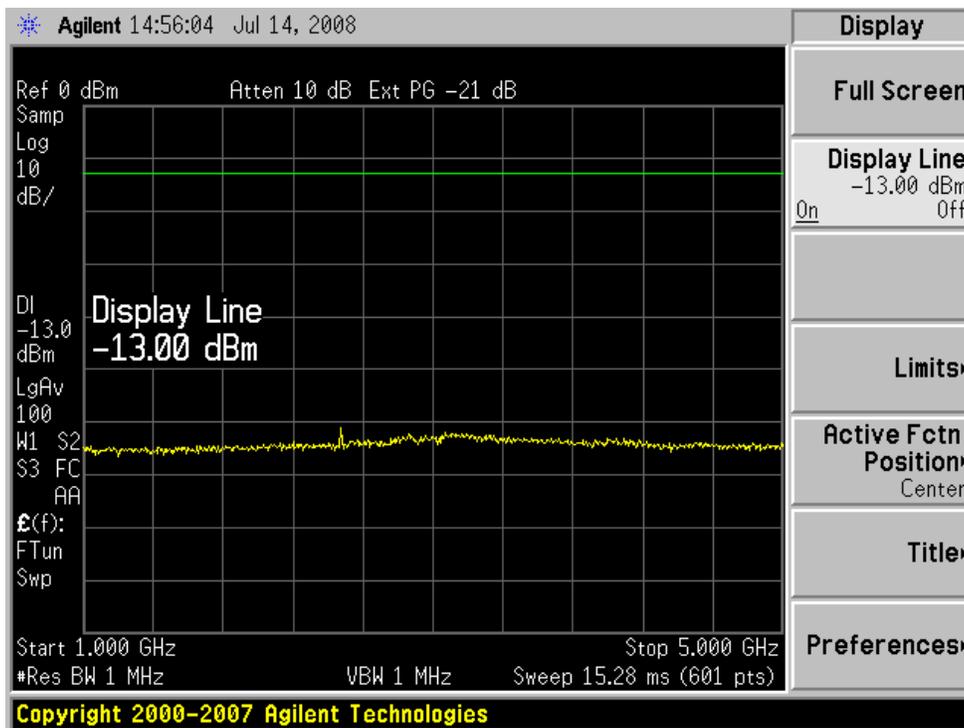
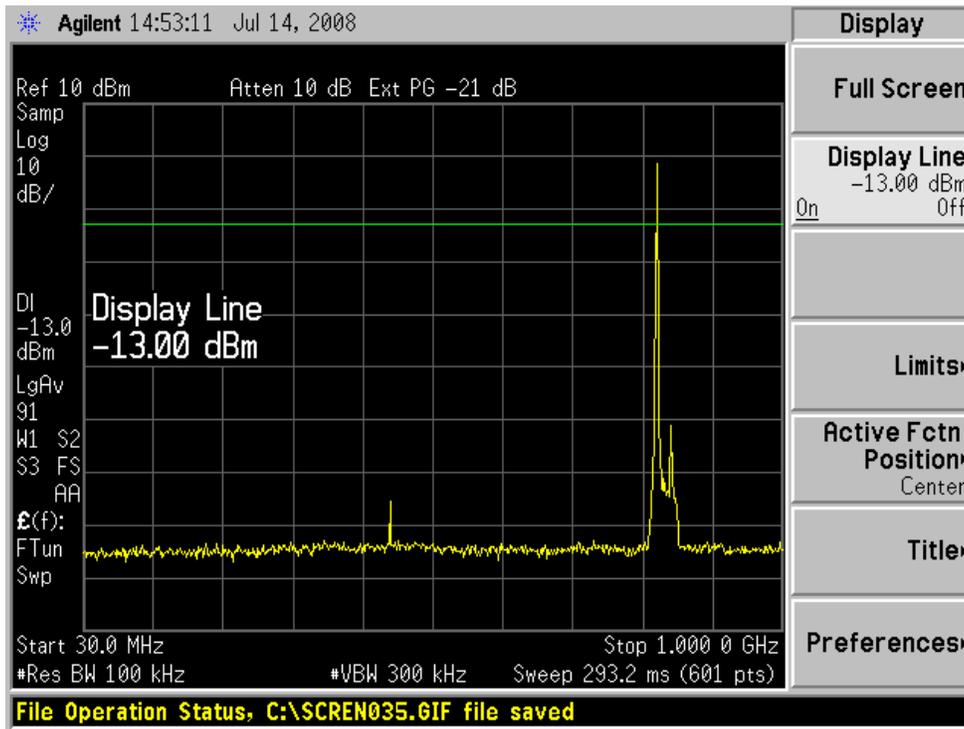
\* The testing was performed by Tina Bob Xiong 2008-07-14

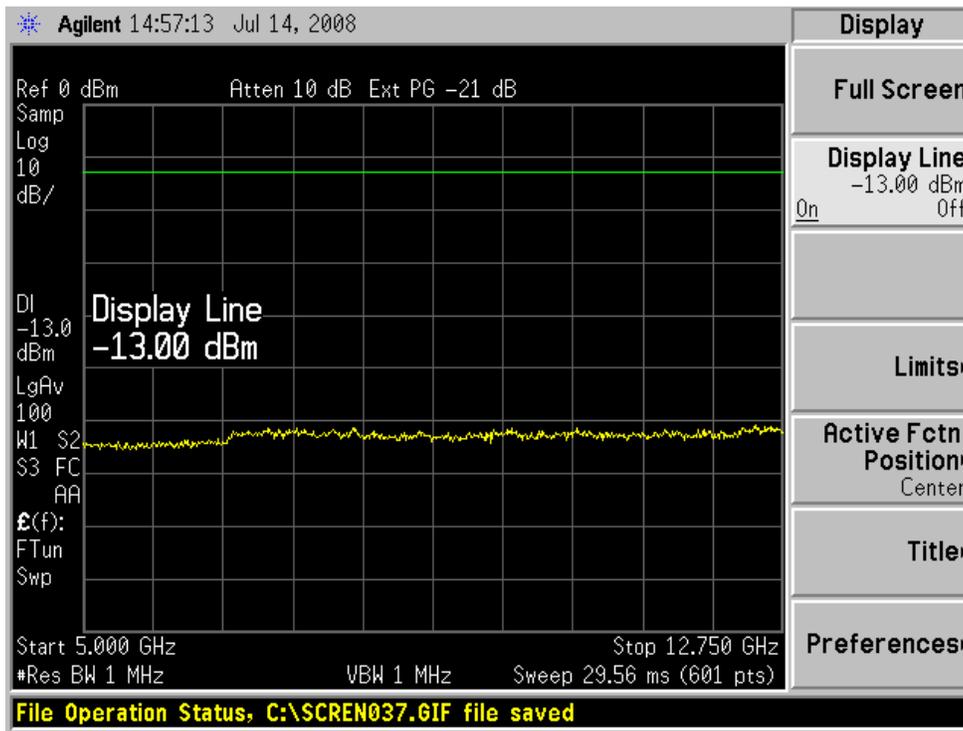
### 8.5 Test Results

Please refer to the hereinafter plots.

Channel 1013







**9 §2.1055 (a), §2.1055 (d), §22.355 - FREQUENCY STABILITY**

**9.1 Applicable Standard**

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1\_Frequency Tolerance for Transmitters in the Public Mobile Services

Table C-1\_Frequency Tolerance for Transmitters in the Public Mobile Services

Mobile Frequency range (MHz) (ppm)	Mobile Base, fixed (ppm)	[le]3 watts	[le]3 watts
25 to 50.....	20.0	20.0	50.0
50 to 450.....	5.0	5.0	50.0
450 to 512.....	2.5	5.0	5.0
821 to 896.....	1.5	2.5	2.5
928 to 929.....	5.0	n/a	n/a
929 to 960.....	1.5	n/a	n/a
2110 to 2220.....	10.0	n/a	n/a

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

**9.2 Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

**9.3 Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Cal. Dates
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-19
Agilent	Spectrum Analysis	E4405B	MY41440292	2008-01-19
Wuxi	Temperature Oven	GDW-0100	G30064	2008-01-19

**\* Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

## 9.4 Environmental Conditions

<b>Temperature:</b>	20° C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	1018mbar

\* The testing was performed by Tina Bob Xiong 2008-07-14

## 9.5 Test Results

*Frequency Stability versus Temperature:*

Reference Frequency: 836.52MHz, Limit: 2.5ppm				
Test Environment		Frequency Error ( Hz)	Measurement Results	
Temperature (°C)	Power Supplied (VDC)		(ppm)	Limit (ppm)
50	3.7	4.6	0.00549897	2.5
40	3.7	2.5	0.00298857	2.5
30	3.7	3.8	0.00454263	2.5
20	3.7	0.6	0.00071725	2.5
10	3.7	0.5	0.00059771	2.5
0	3.7	3.8	0.00454263	2.5
-10	3.7	2.8	0.00615080	2.5
-20	3.7	4.0	0.0047817	2.5
-30	3.7	4.2	0.0050208	2.5

*Frequency Stability versus Voltage:*

Reference Frequency: 836.52MHz, Limit: 2.5ppm				
Test Environment		Frequency Error ( Hz)	Measurement Results	
Temperature (°C)	Power Supplied (VDC)		(ppm)	Limit (ppm)
50	3.4	5.2	0.00621622	2.5
40	3.4	2.5	0.00298857	2.5
30	3.4	2.5	0.00298857	2.5
20	3.4	0.5	0.00059771	2.5
10	3.4	1.6	0.00285573	2.5
0	3.4	3.8	0.00454263	2.5
-10	3.4	2.8	0.00615080	2.5
-20	3.4	3.8	0.0033472	2.5
-30	3.4	2.7	0.00322766	2.5

## 10 §22.917 – BAND EDGE

### 10.1 Applicable Standard

According to § 22.917, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

### 10.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.

### 10.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Dates
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2008-01-19
Agilent	Spectrum Analysis	E4405B	MY41440292	2008-01-19

\* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

### 10.4 Environmental Conditions

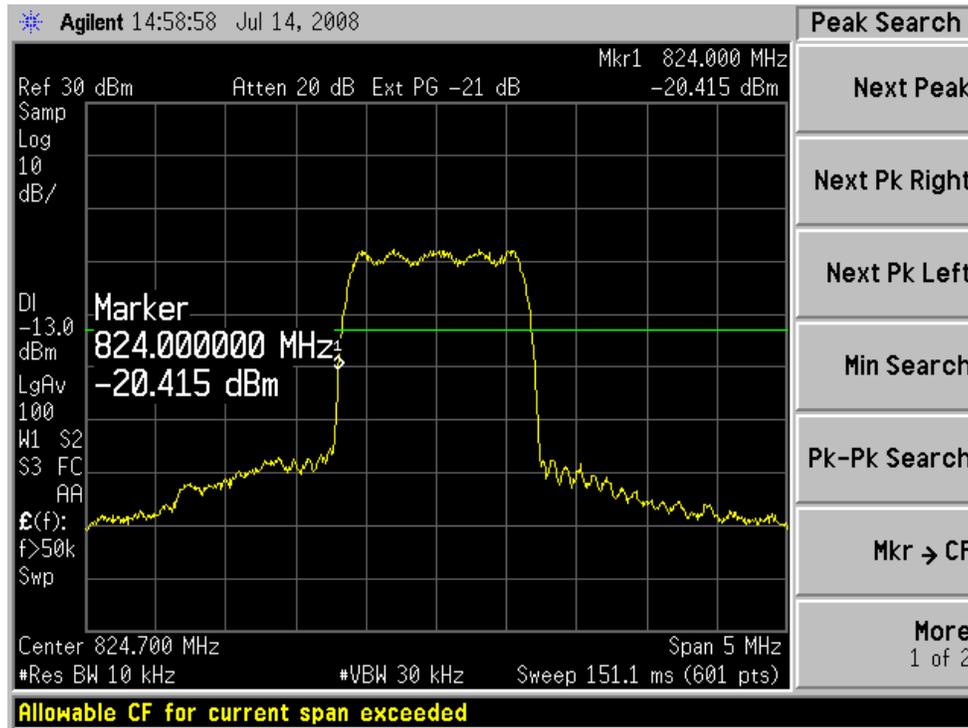
<b>Temperature:</b>	20° C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	1018mbar

*The testing was performed by Tina Bob Xiong 2008-07-14*

### 10.5 Test Results

Please refer to the following plots.

### Lowest Channel



### Highest Channel

