

# TEST REPORT

**REPORT NUMBER: B08GE6080-FCC-EMC**

**ON**

**Type of Equipment:** GSM Dual-band GPRS Digital Mobile Phone  
**Type of Designation:** ZTE A261+  
**Manufacturer:** ZTE CORPORATION

**ACCORDING TO**

**FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO  
TREATY MATTERS; GENERAL RULES AND REGULATIONS;  
e-CFR, March 23, 2006**

**PART 22, PUBLIC MOBILE SERVICES (Oct 1, 02 Edition)**

**PART 24, PERSONAL COMMUNICATIONS SERVICES (Oct 1, 97  
Edition)**

**China Telecommunication Technology Labs.**

*Month date, year*

*Aug, 22, 2008*

*Signature*



**He Guili  
Director**

**FCC ID:** Q78-A261PLUS

**Report Date:** 2008-08-21

**Test Firm Name:** China Telecommunication Technology Labs

**Registration Number:** 840587

#### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, and 24. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1 General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

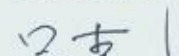
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FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC

## 1.2 Testers

Name: Lv Ke  
Position: Engineer  
Department: Department of EMC test  
Signature: 

Name: Li Dongjin  
Position: Engineer  
Department: Department of EMC test  
Signature: 

Editor of this test report:

Name: Yuan Yuan  
Position: Engineer  
Department: Department of EMC test  
Date: 2008-08-21  
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi  
Position: Manager  
Department: Department of EMC test  
Date: 2008-08-22  
Signature: 

## 1.3 Testing Laboratory information

### 1.3.1 Location

Name: China Telecommunication Technology Labs.  
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District  
BEIJING  
P. R. CHINA, 100083  
Tel: +86 10 68094053  
Fax: +86 10 68011404  
Email: [emc@chinattl.com](mailto:emc@chinattl.com)

### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)  
Registration number: CNAS Registration No. CNAS L0570  
Standard: ISO/IEC 17025:2005

### 1.3.3 Test location, where different from section 1.3.1

Name: -----  
Street: -----  
City: -----  
Country: -----  
Telephone: -----  
Fax: -----  
Postcode: -----

## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

Name: ZTE CORPORATION

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

Country: China

Telephone: +86-021-68897541

Fax: +86-21-50701080

Contact: Zhangmin

Telephone: 021-68897541

Email: [Zhang.min13@zte.com.cn](mailto:Zhang.min13@zte.com.cn)

### 1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --

Address: --

### 1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: --

Address: --



## 2 Test Item

### 2.1 General Information

Manufacturer: ZTE CORPORATION  
Name: GSM Dual-band GPRS Digital Mobile Phone  
Model Number: ZTE A261+  
Serial Number: --  
Production Status: Production  
Receipt date of test item: 2008-8-4

### 2.2 Outline of EUT

E.U.T. is a Dual Band E.U.T. is a GSM/GPRS Mobile phone.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	ZTE CORPORATION	ZTE A261+	--	None
B	adapter	ZTE CORPORATION	STC-A22O50U5-A	--	None
C	battery	ZTE CORPORATION	Li3707T42P3h46 3848	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.0 m	No	1	None



## 2.5 Other Information

(a) Modulation is GMSK.

(b) Emission Designator is 277KGXW.

(c) Version of hardware and software

HW Version: g5rA

SW Version: ce-cn-zte-p103b9v1.0.0b02

(d) Adaptor information:

Input: 100-240VAC 50/60Hz 200mA

Output: 5.0VDC 700mA

(e) Battery information:

3.7VDC 720mAh

(f) GPRS Multi-Slot Class 12, Duty Cycle 1:2

### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

<b>GSM mode:</b>		
Specification Clause	Name of Test	Result
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 1
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 1: No applicable performance criteria.		

<b>GPRS mode:</b>		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 2
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 2: No applicable performance criteria.		

## 4 Test Results of mode

### 4.1 Radiated Spurious Emission

Specifications:	2.1051, 24.238, 2.1053, 22.917					
Date of Tests	2008-8-7, 2008-8-11					
Test conditions:	Ambient Temperature: 15°C -35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661 for GSM and GPRS mode					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

#### Limit Level Construction:

According to Part 24.238 (a), i.e., Out of band emissions. 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, so the limit level is:  
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

#### Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

#### Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

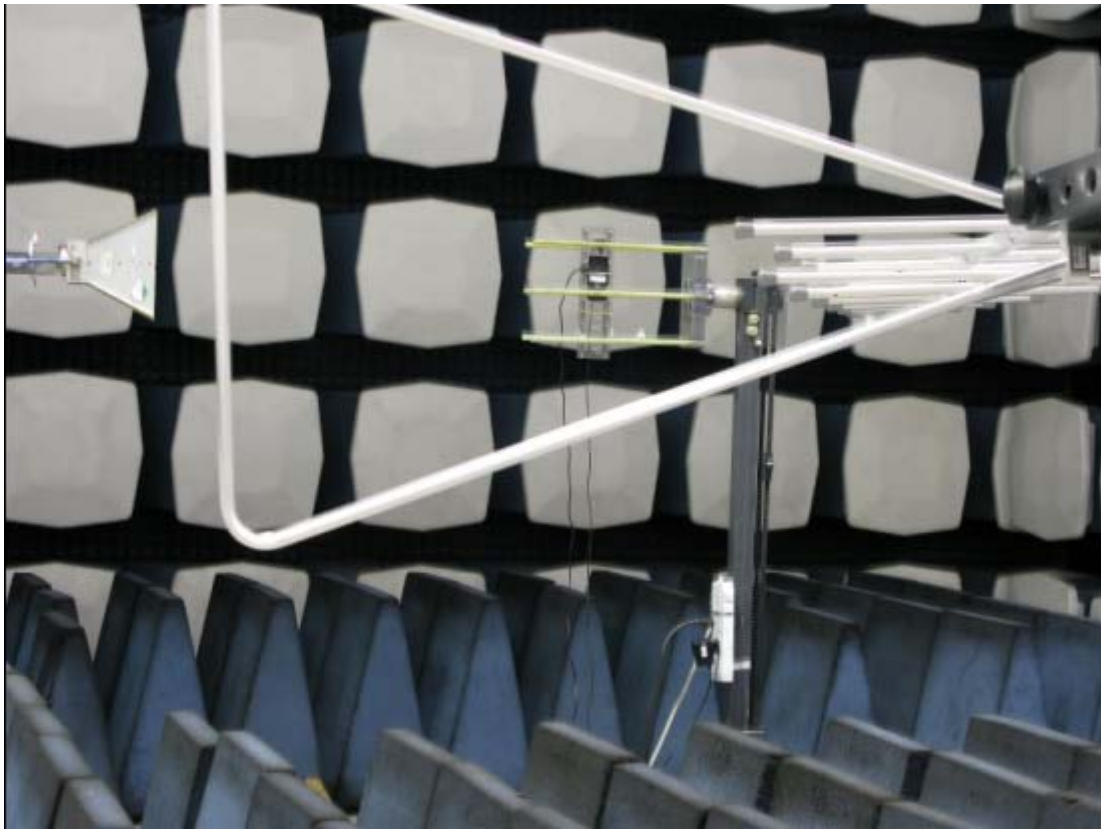


Figure SP

#### Test Method:

The measurement was performed accordance with section 2.2.12 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

1 The maximum spurious emissions were searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 Levels of EUT's transmitter harmonics and suspicious signals were recorded.

3 The recorded levels were corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration was made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

4 The corrected values of radiated spurious emissions indicated as EIRP are reported.

#### Note:

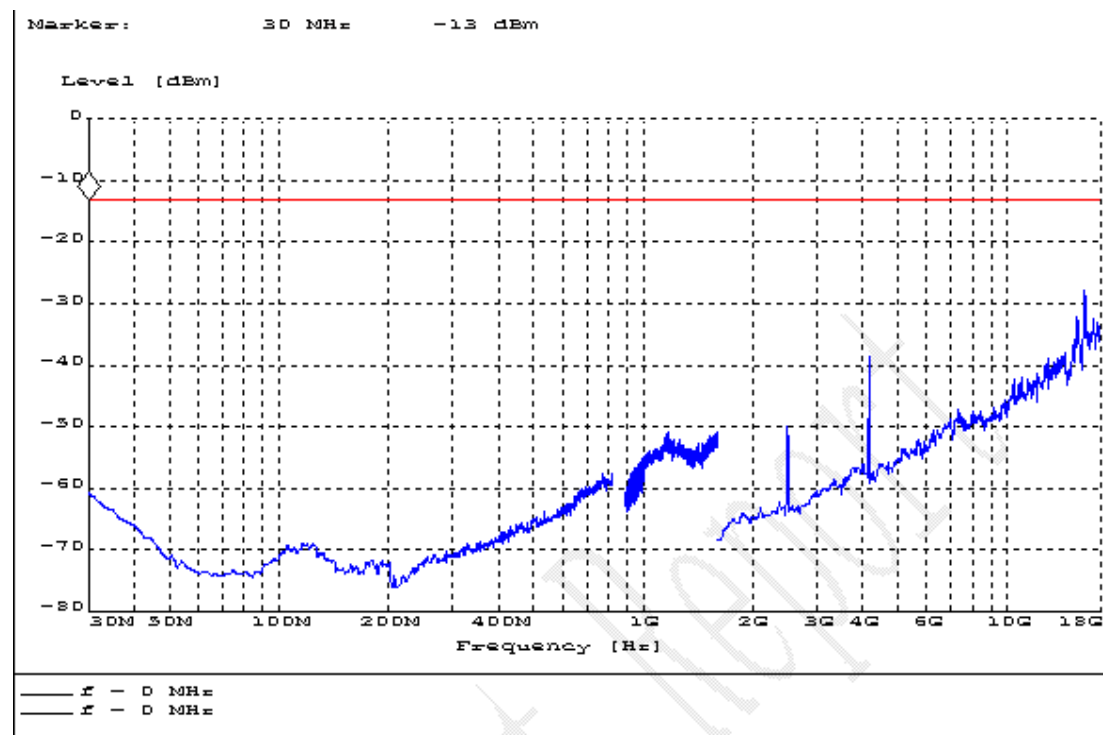
1 The investigated ARFCNs are 190 (836.6 MHz) and 661 (1880.0 MHz).

2 The investigated frequency range is 30 MHz ~ 18 GHz.

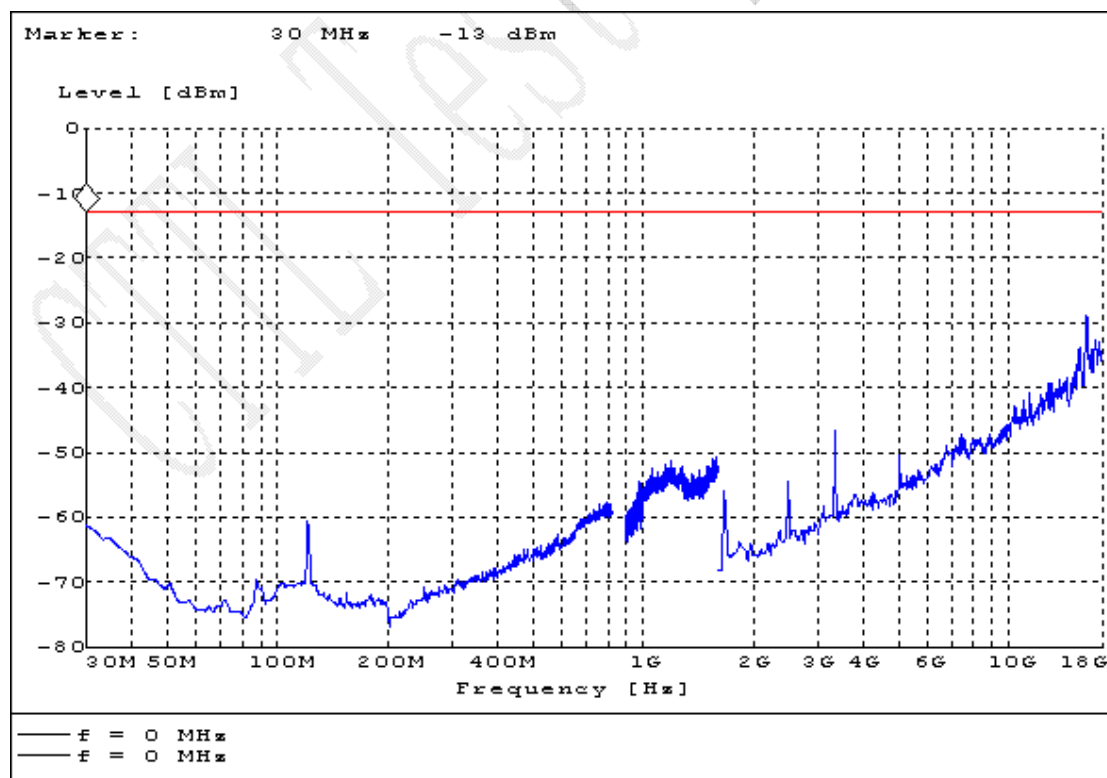
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC

### Test Results for GSM mode:



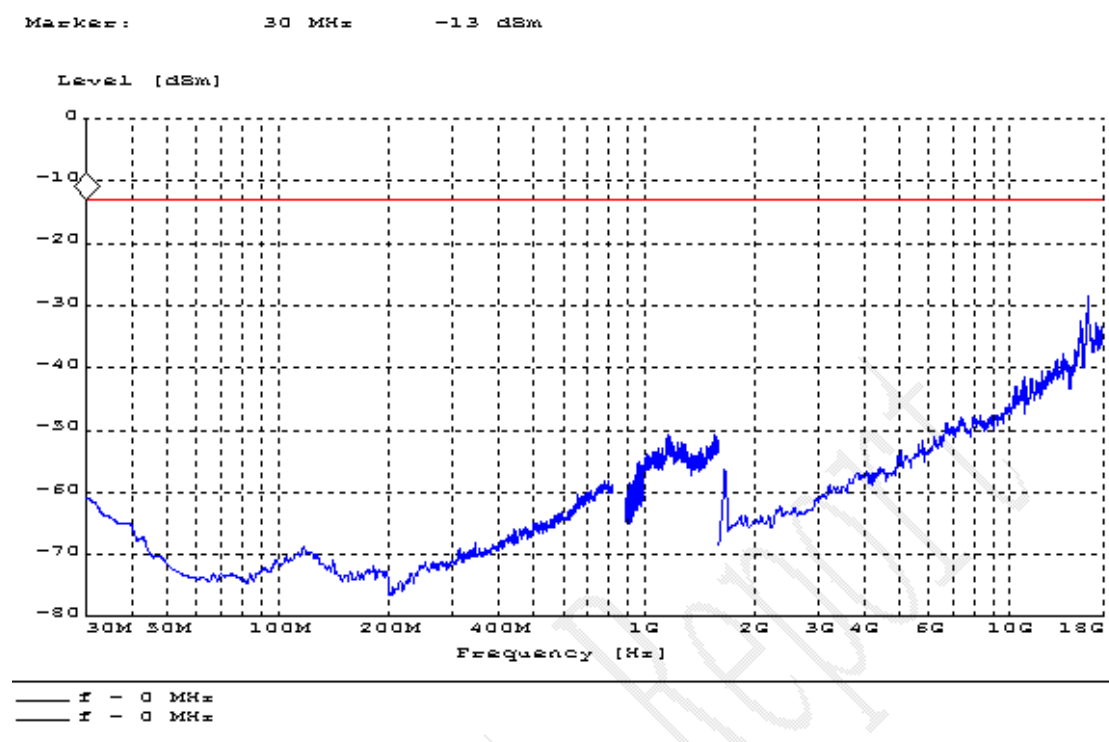
### S190VF for GSM mode



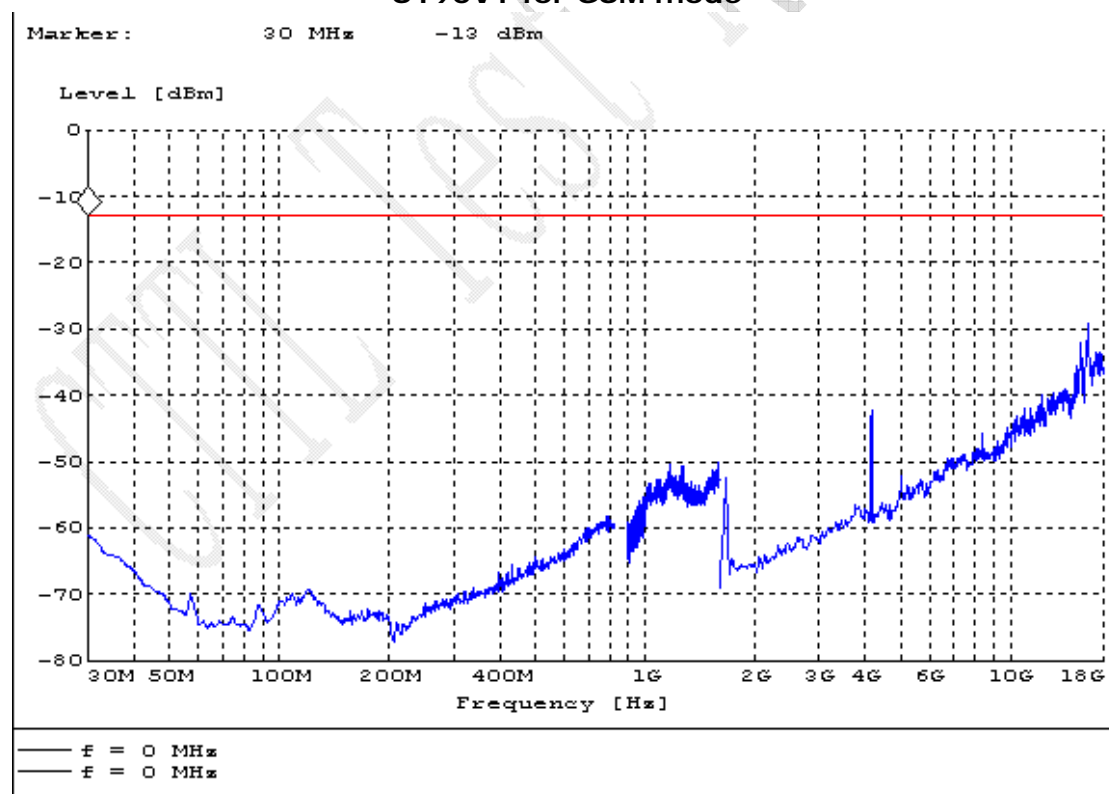
### S190HF for GSM mode

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



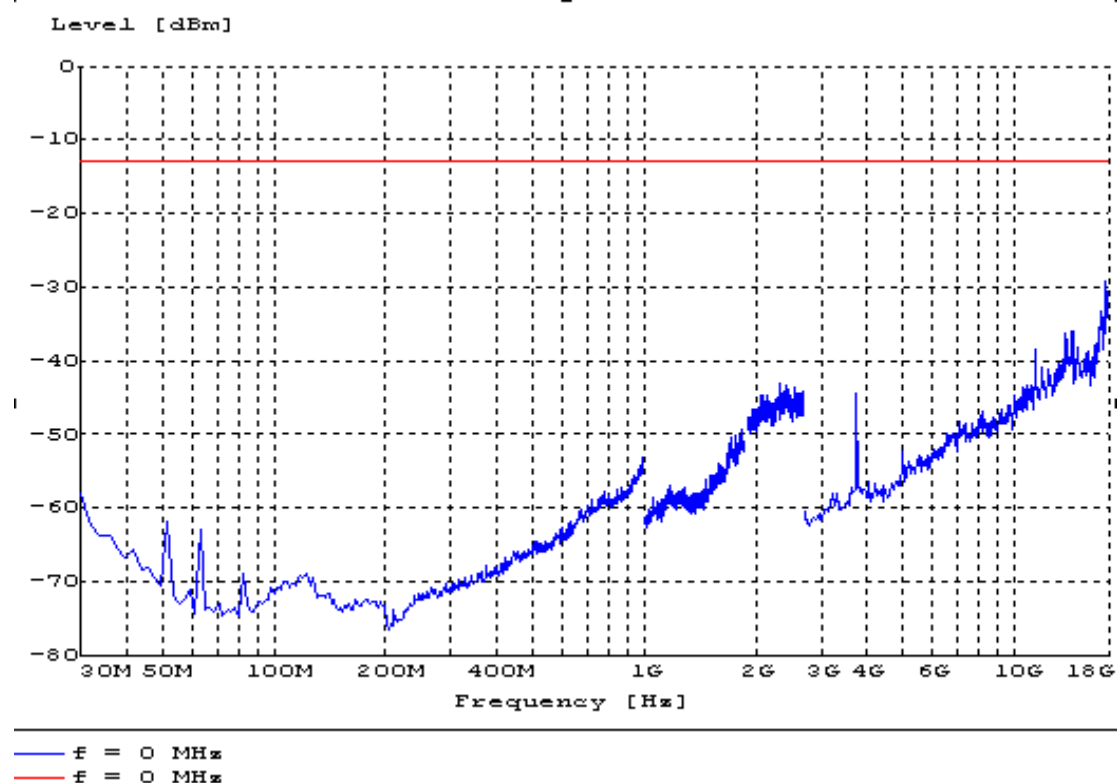
### S190VT for GSM mode



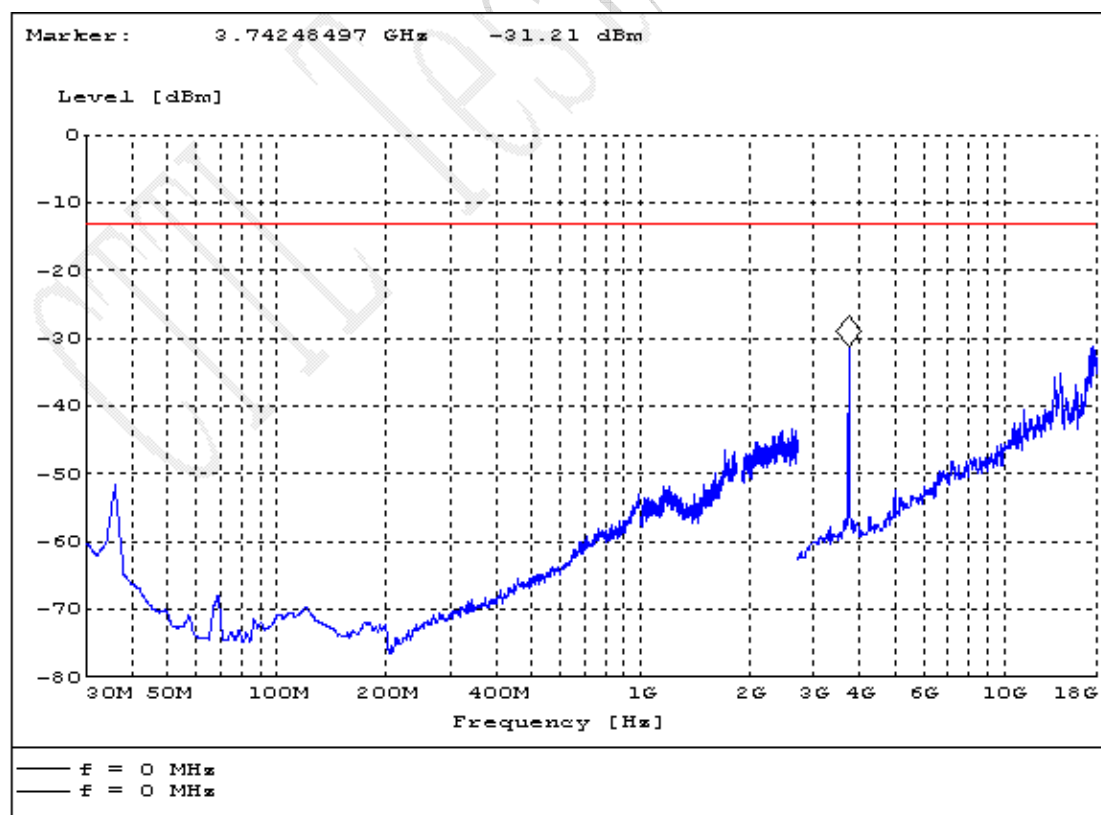
### S190HT for GSM mode

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



### S661VF for GSM Mode

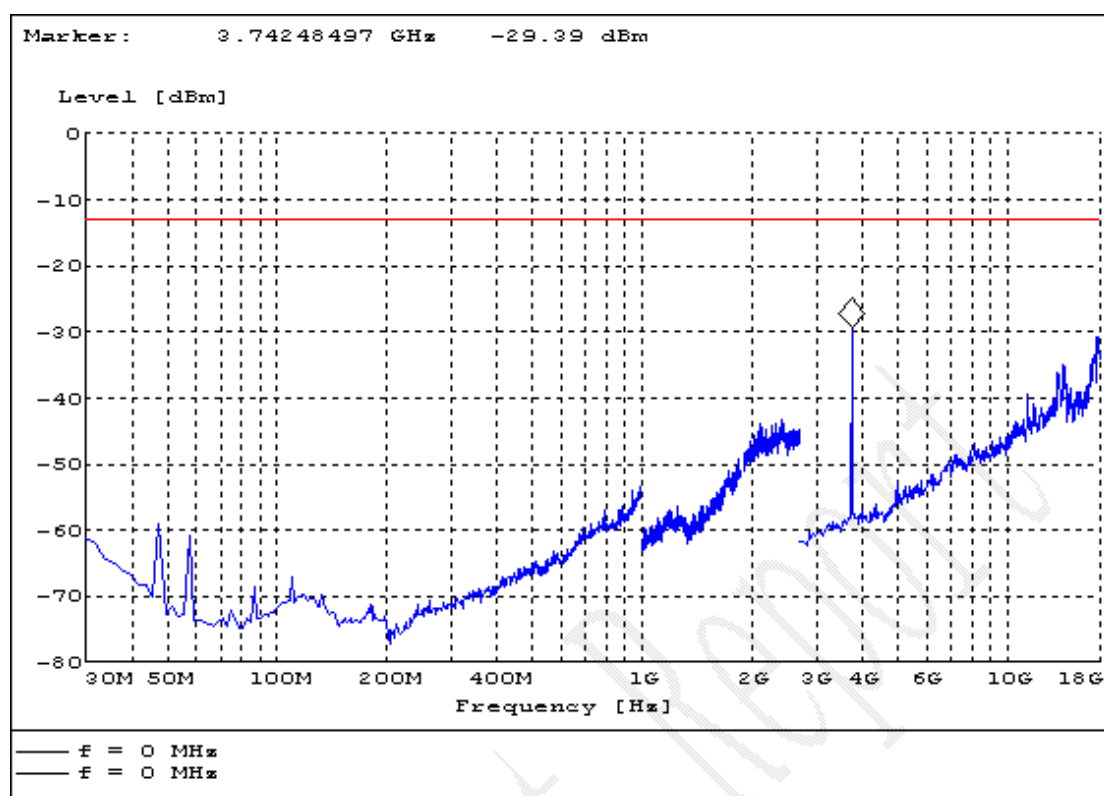


### S661HF for GSM mode

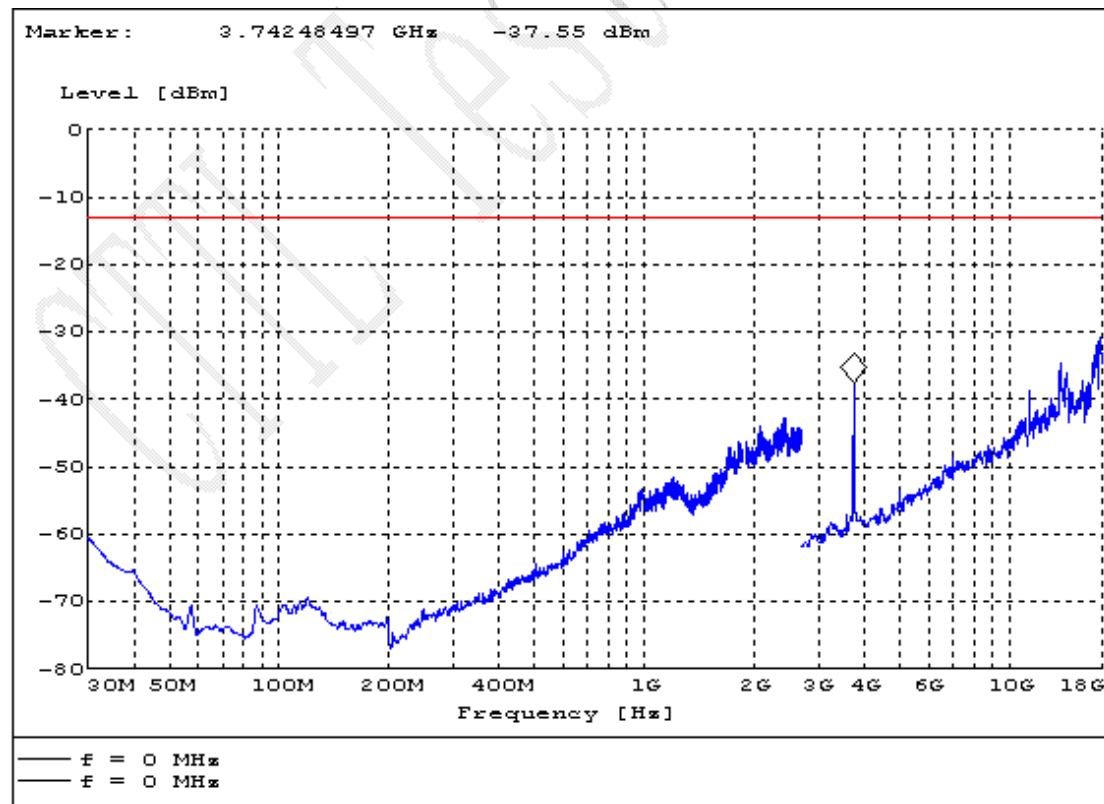


FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC

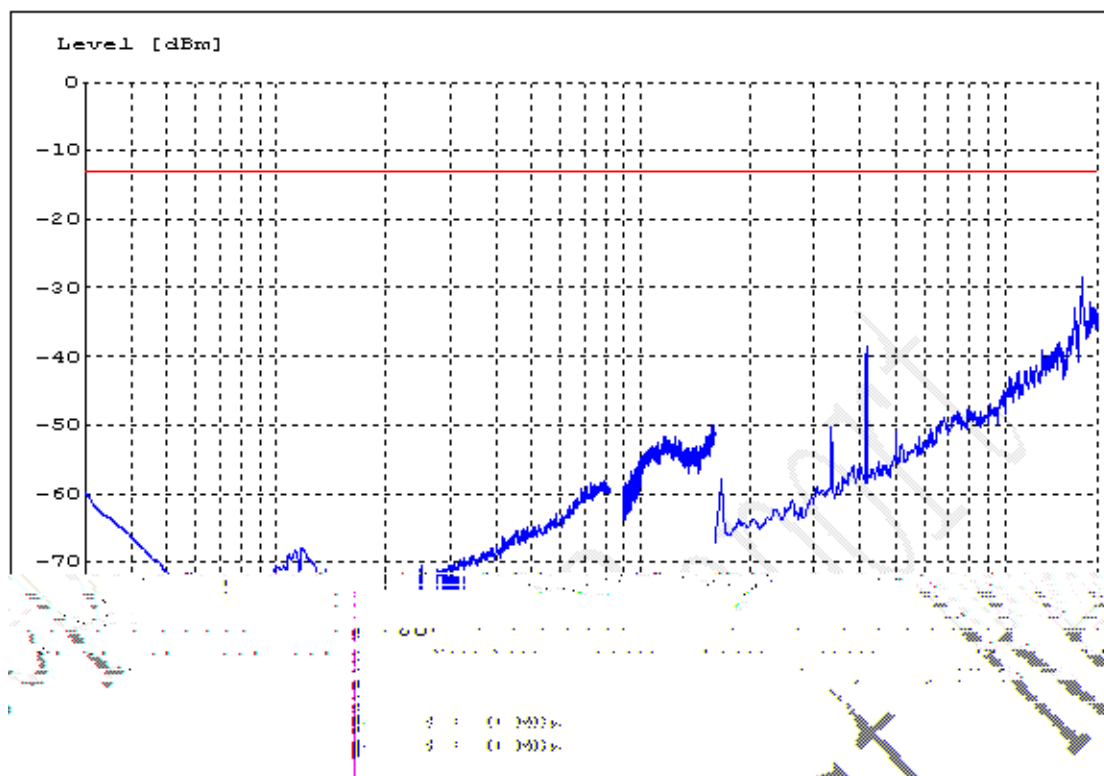


**S661VT for GSM mode**

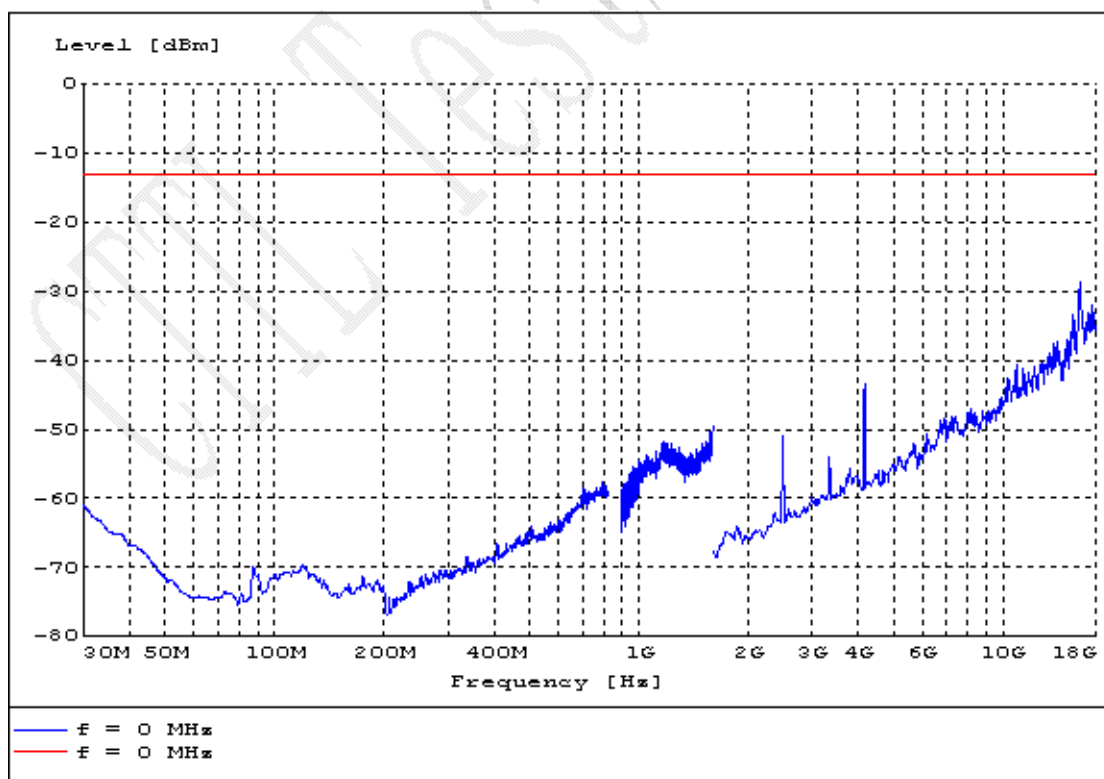


**S661HT for GSM mode**

### Test Results for GPRS mode:



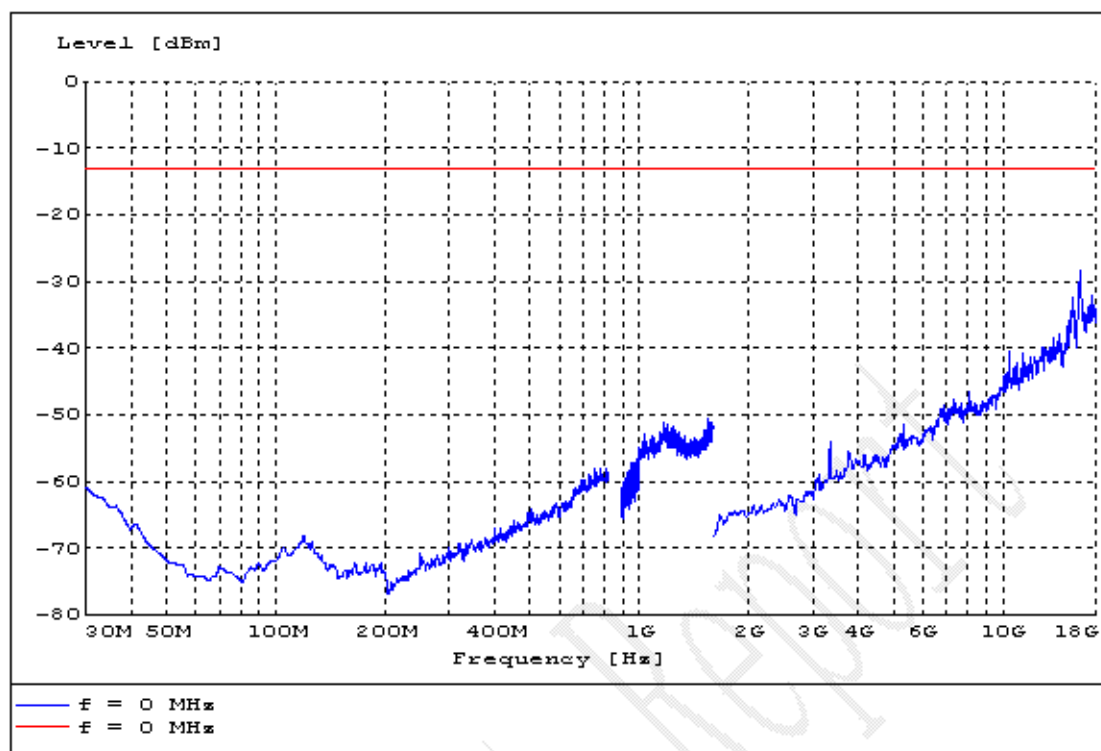
S190VF for GPRS mode



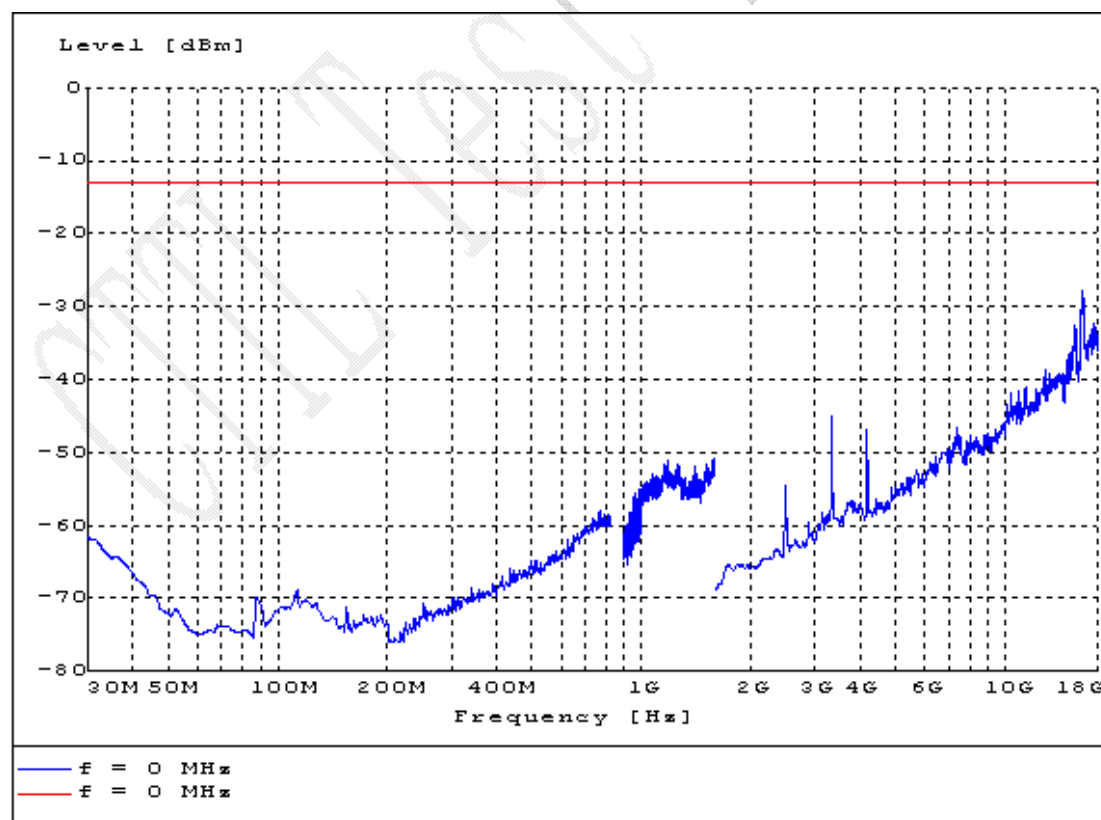
S190HF for GPRS mode

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

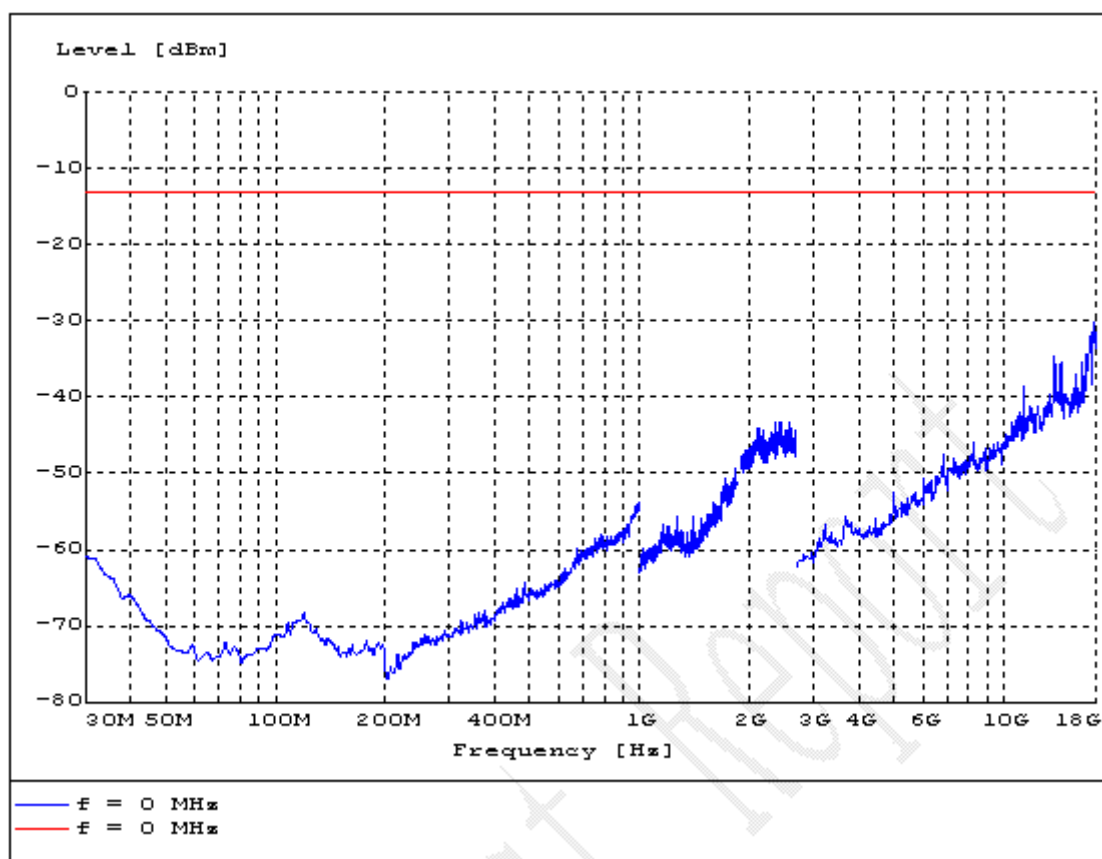
REPORT NO.: B08GE6080-FCC-EMC



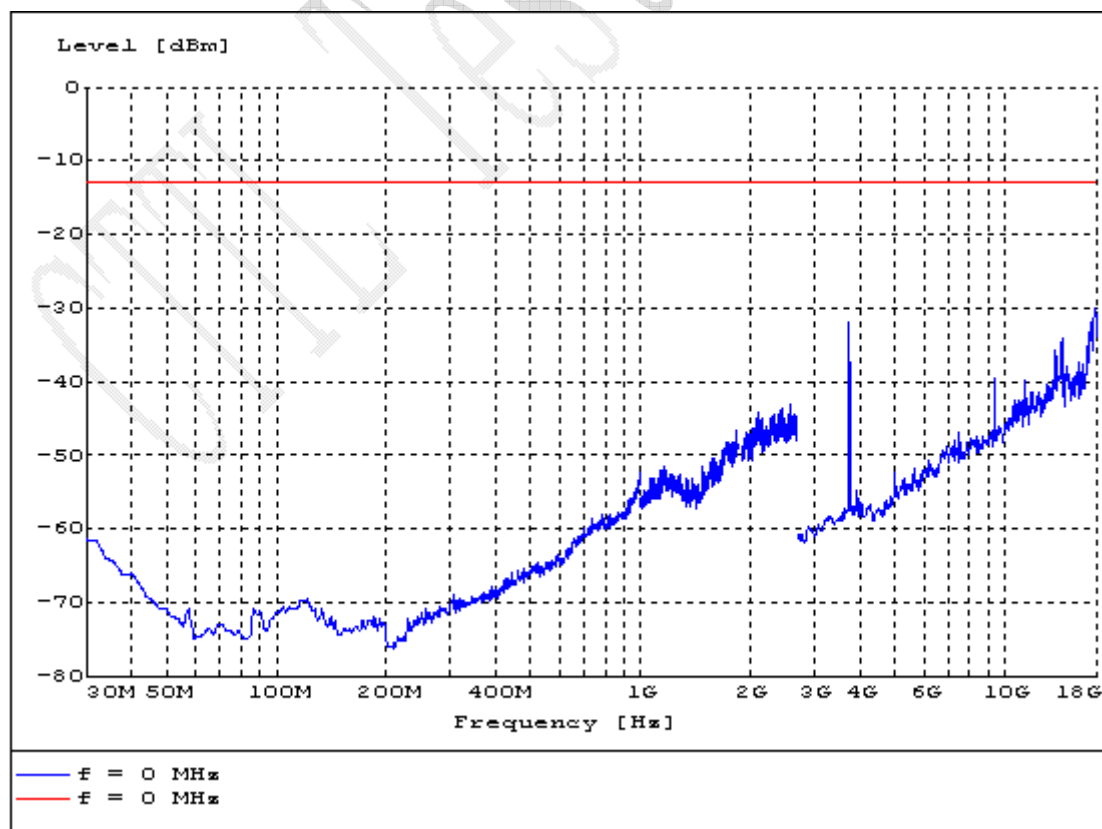
**S190VT for GPRS mode**



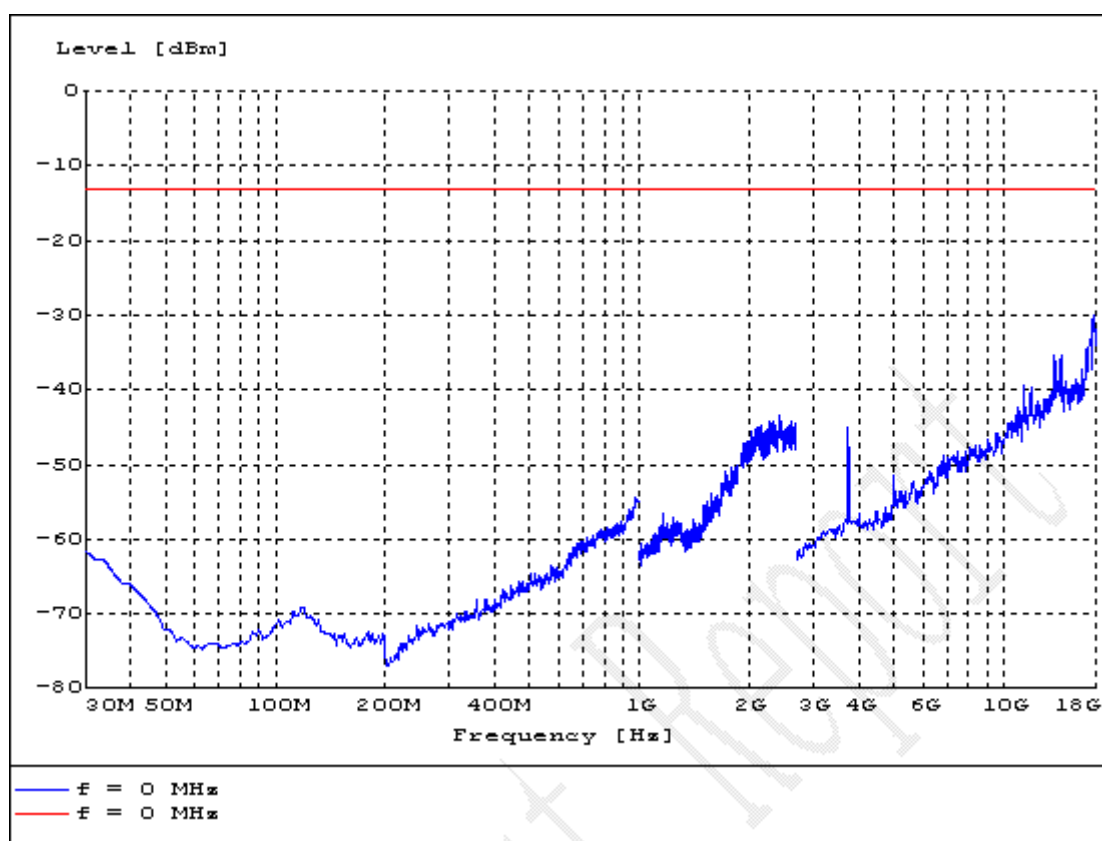
**S190HT for GPRS mode**



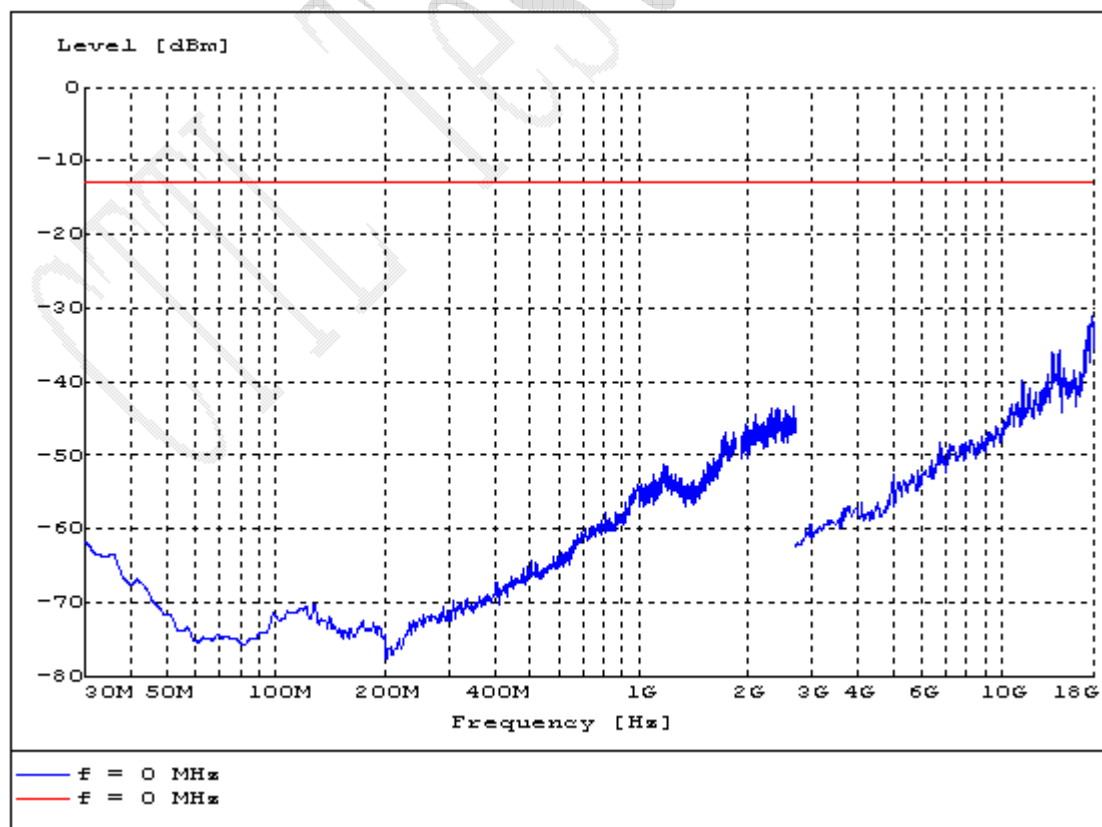
**S661VF for GPRS mode**



**S661HF for GPRS mode**



**S661VT for GPRS mode**



**S661HT for GPRS mode**

## 4.2 Radiated RF Power Output and ERP

Specifications:	2.1046,24.232,22.913(a)					
Date of Tests	2008-8-11					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

### Limit Level Construction:

#### (a) Radiated RF Power Output

According to Part 24.232(b), i.e., Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications, so the limit level is 2 W or 33 dBm.

#### (b) ERP

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

### Limits for Radiated RF Power Output

Frequency range	Limit Level (EIRP)/Resolution Bandwidth
TX channel	33dBm/1MHz

### Limits for ERP

Frequency range	Limit Level (ERP)
TX channel	7W

## Test Setup:

The EUT was set in an anechoic chamber, which is connected to the Wireless Communications Test Set located outside the chamber over the air. The test was done using an automated test system, where all test equipments were controlled by a computer.

## Test Method

The measurement was performed accordance with section 2.2.17 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

1 The maximum power was searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 The measured levels are EIRP values corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration is made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

3 The corrected maximum levels were reported for EIRP values, and ERP values can be calculated from EIRP values.

### Note:

$ERP\text{ dBm} = EIRP\text{ dBm} - 2.15\text{dB}$ .

### ERP Value for GSM 850 band mode:

ARFCN	Frequency [MHz]	ERP [dBm]
128	824.128257	24.11
190	836.553106	23.59
251	848.877756	22.83

### EIRP Value for GSM 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
512	1850.100200	24.46
661	1879.919840	24.65
810	1909.899800	24.74



## ERP Value for GPRS 850 band mode:

ARFCN	Frequency [MHz]	ERP [dBm]
512	824.228457	21.62
661	836.553106	21.60
810	848.777555	21.98

## EIRP Value for GPRS 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
128	1850.100200	24.49
190	1879.919840	24.83
251	1909.899800	24.97

### 4.3 Occupied bandwidth

Specifications:	2.1049,22.917(b),24.238(b)					
Date of Test	2008-8-11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810					
Test Results:	--					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

### Test Setup

The situation under which maximum EIRP values were found in the measurement of the radiated RF power output was used to determine the 99% occupied bandwidth. The Wireless Communications Test Set was used to set the TX channel, power level and modulation.

### Test Method

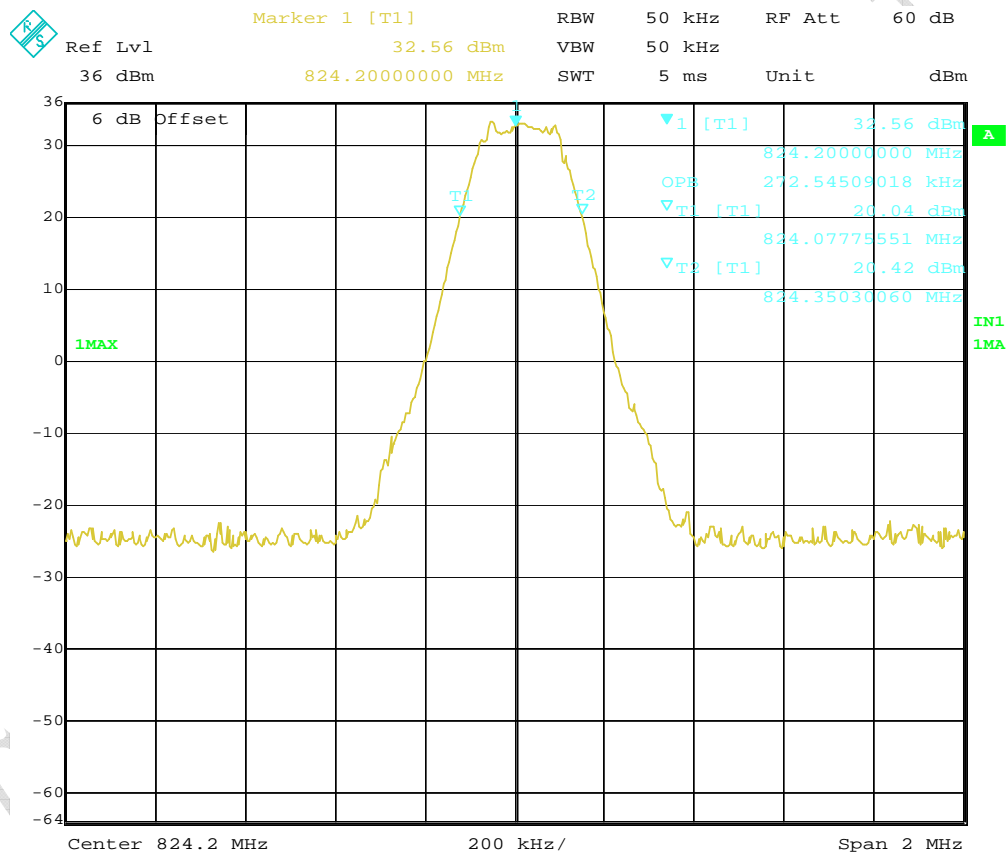
The 99% occupied bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band.

Note: --

## Results data of GSM mode:

EUT channel	99% occupied bandwidth [kHz]
128	273
190	273
251	273
512	273
661	273
810	273

## Graphical results for GSM mode:

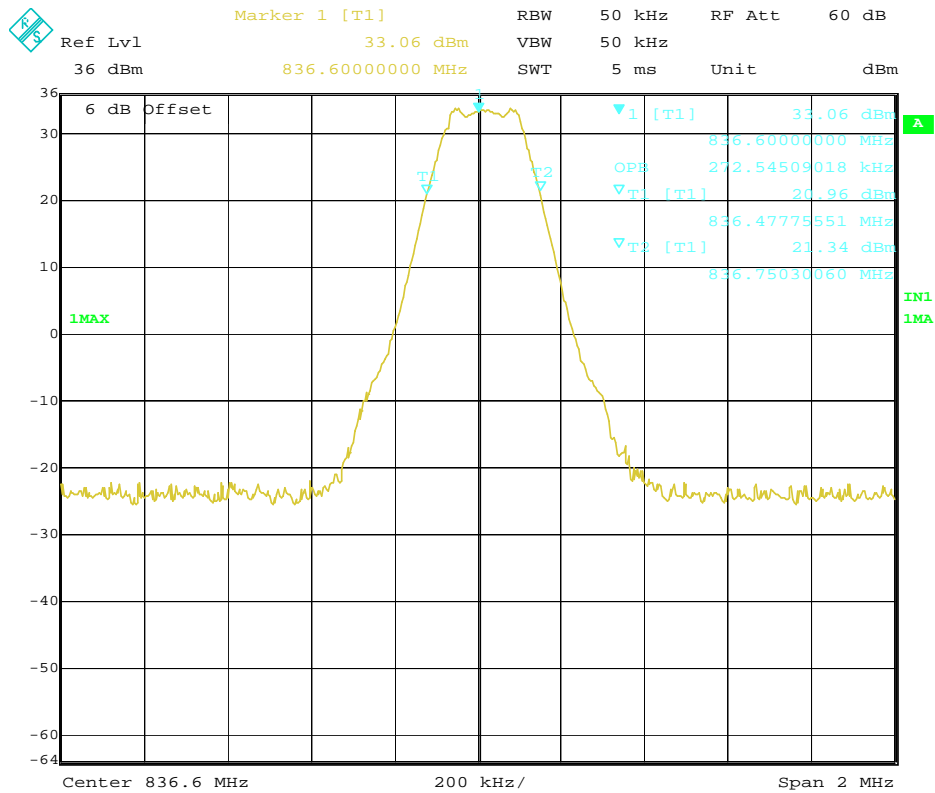


Date: 11.AUG.2008 21:53:51

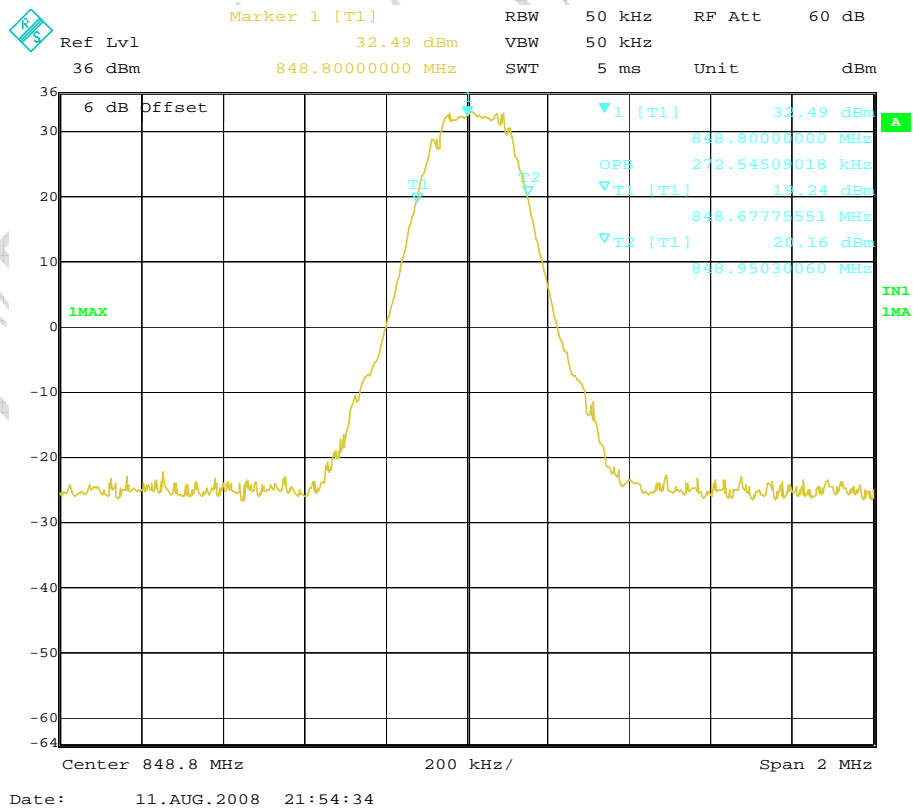
Channel 128

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

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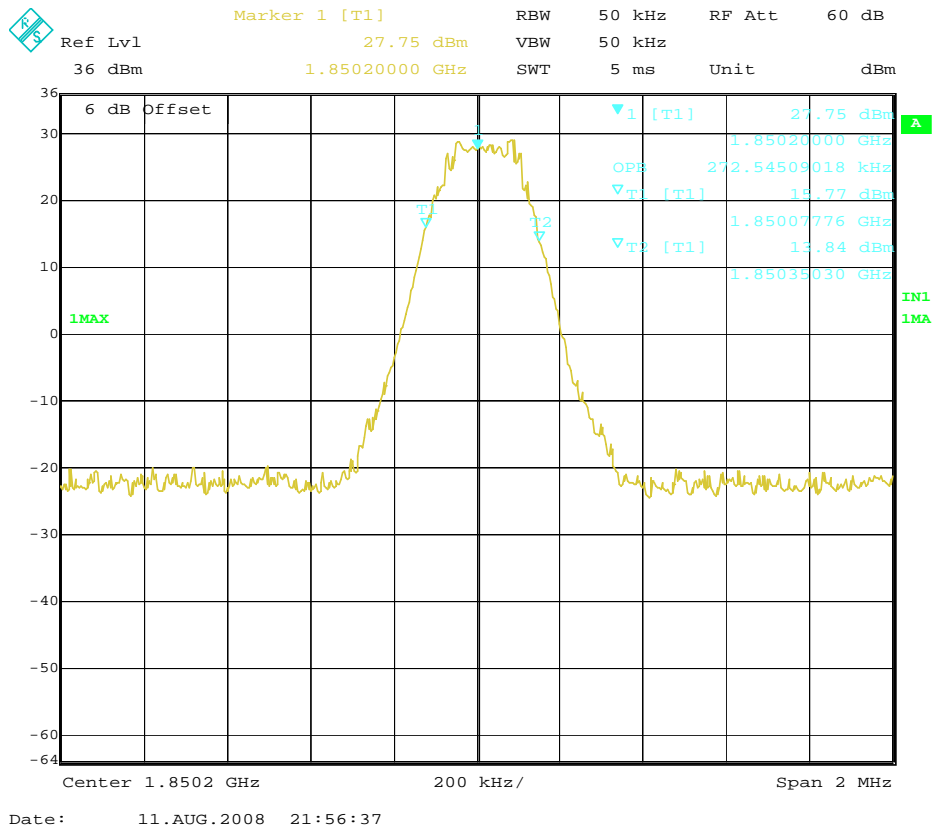
### Channel 190



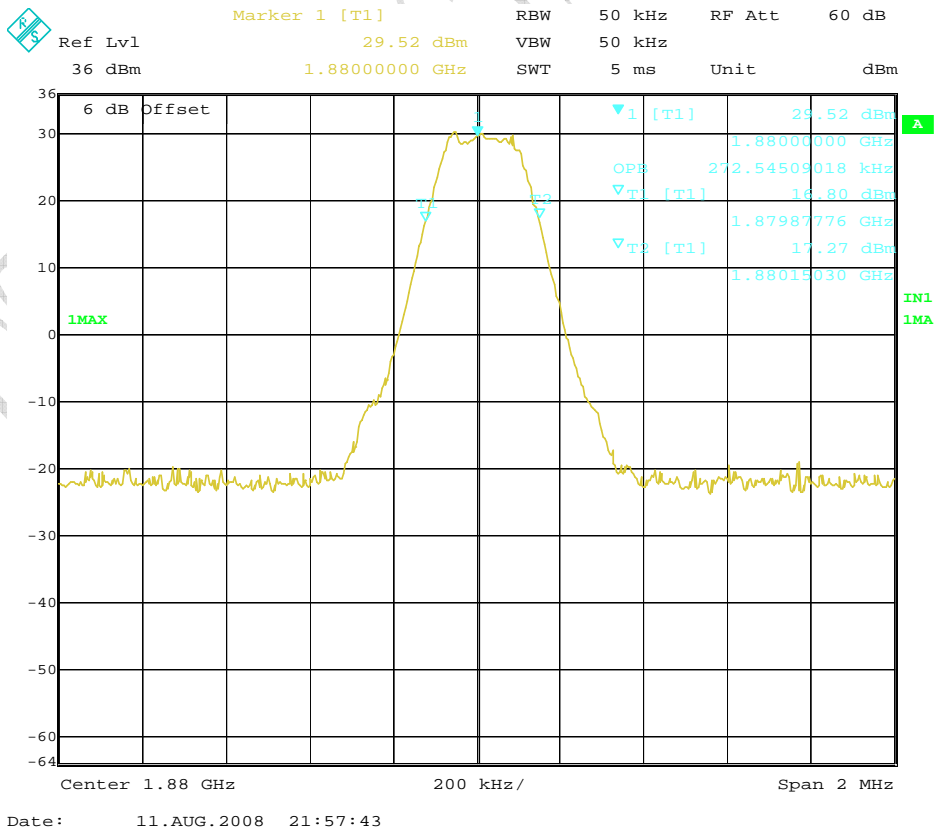
### Channel 251

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



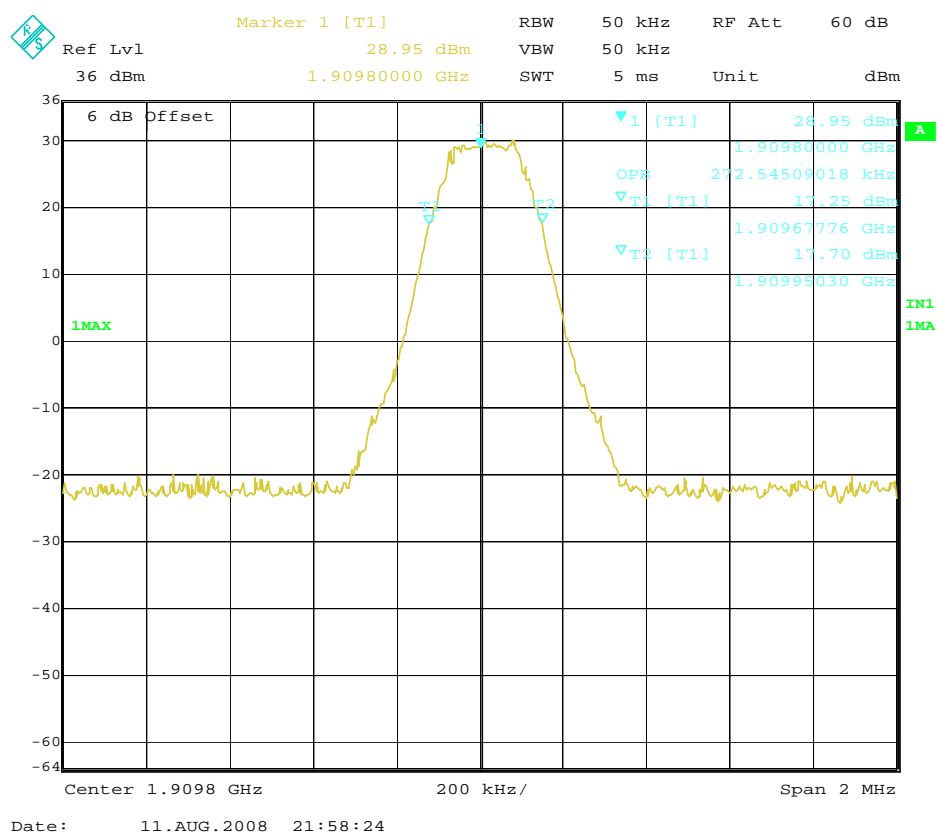
### Channel 512



### Channel 661

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

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Channel 810

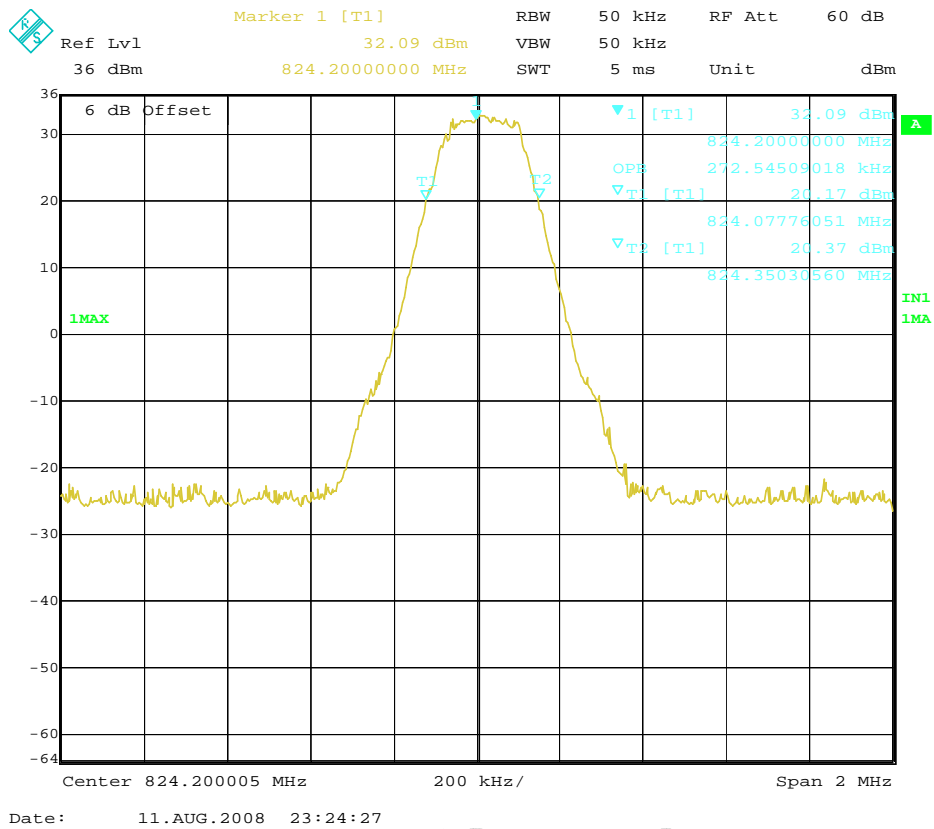
Results data of GPRS mode:

EUT channel	99% occupied bandwidth [kHz]
128	273
190	273
251	273
512	273
661	277
810	273

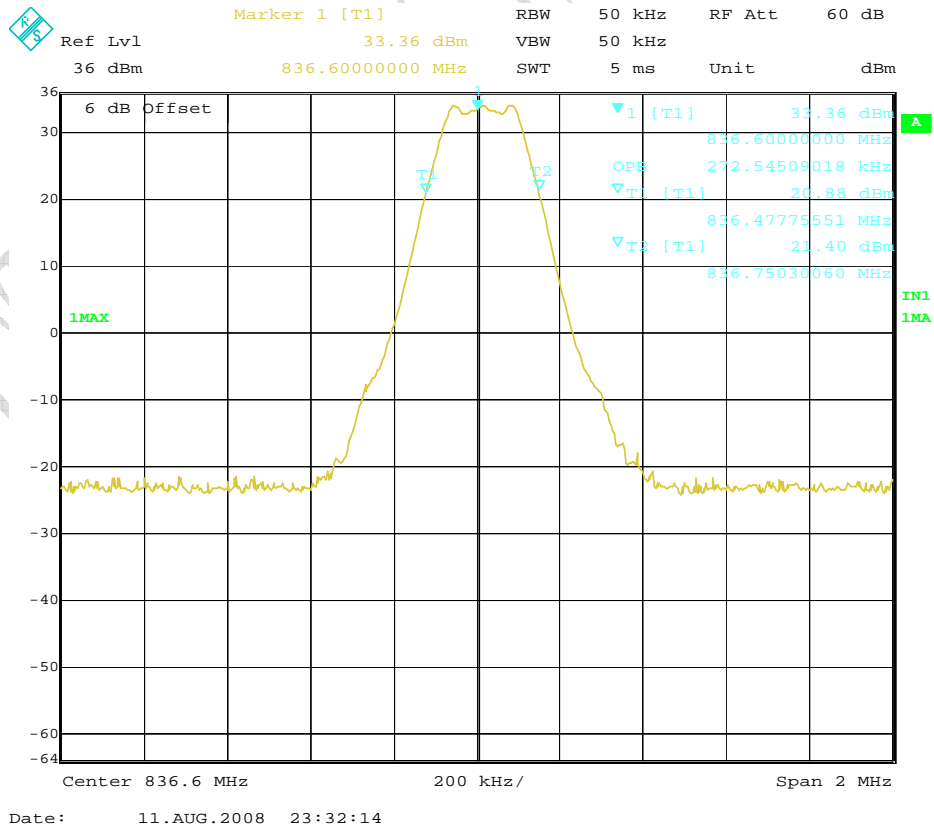
Graphical results for GPRS mode:

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

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### Channel 128

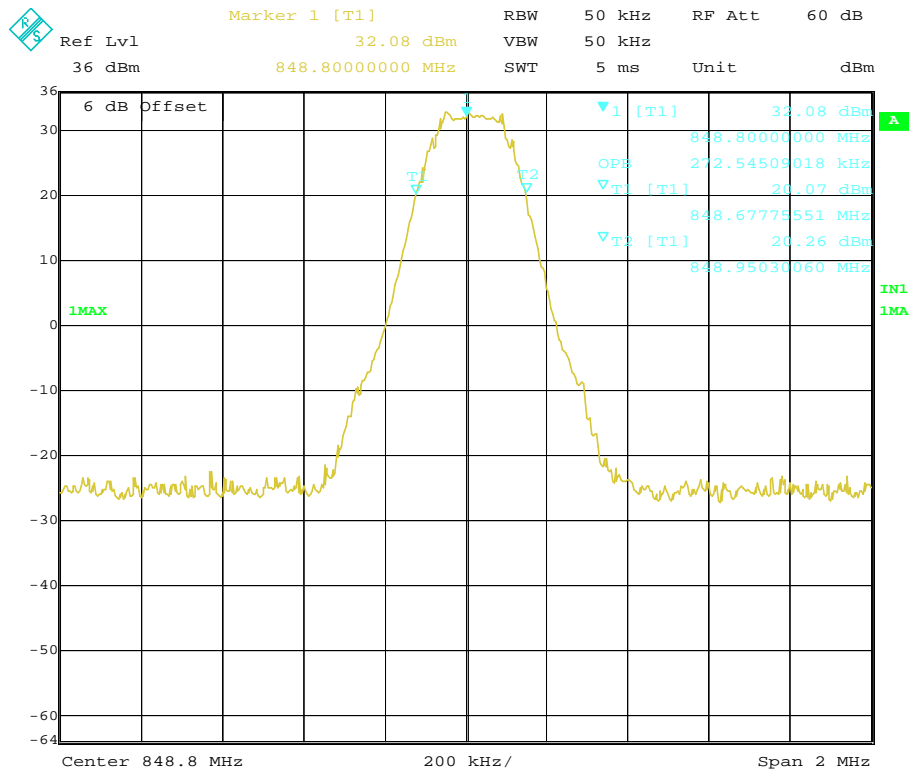


### Channel 190



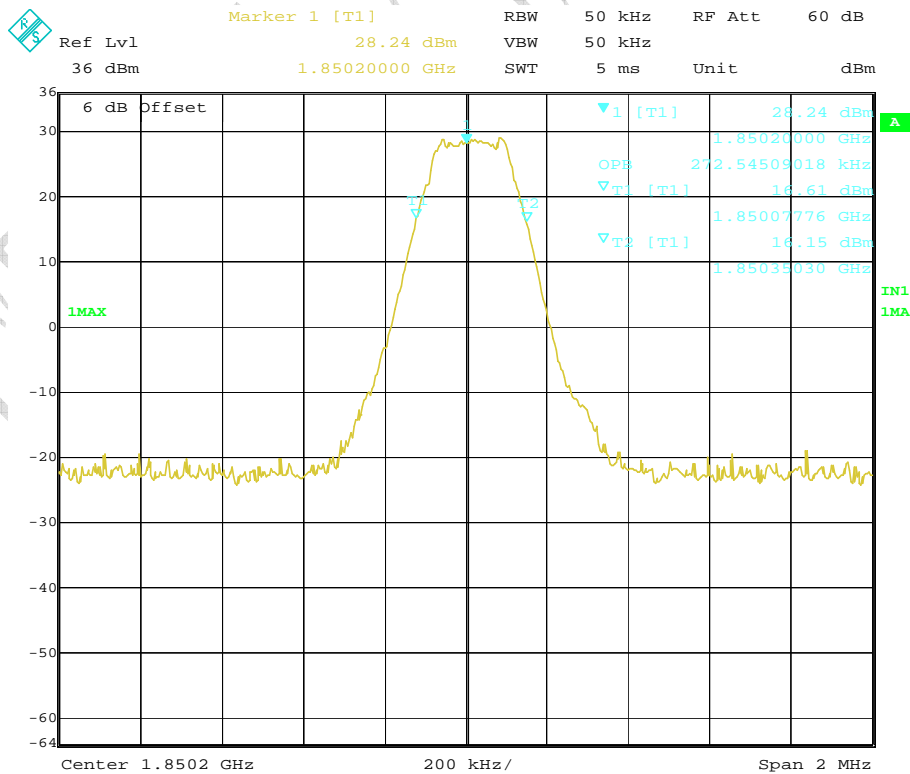
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Date: 11.AUG.2008 23:34:02

### Channel 251

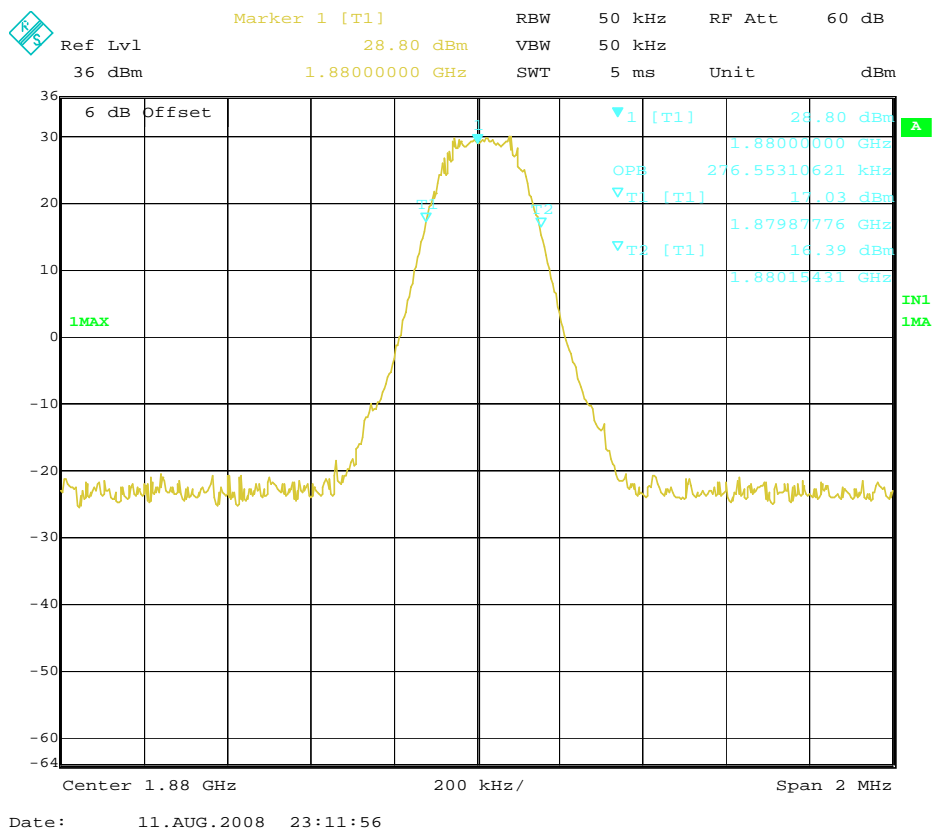


Date: 11.AUG.2008 23:12:48

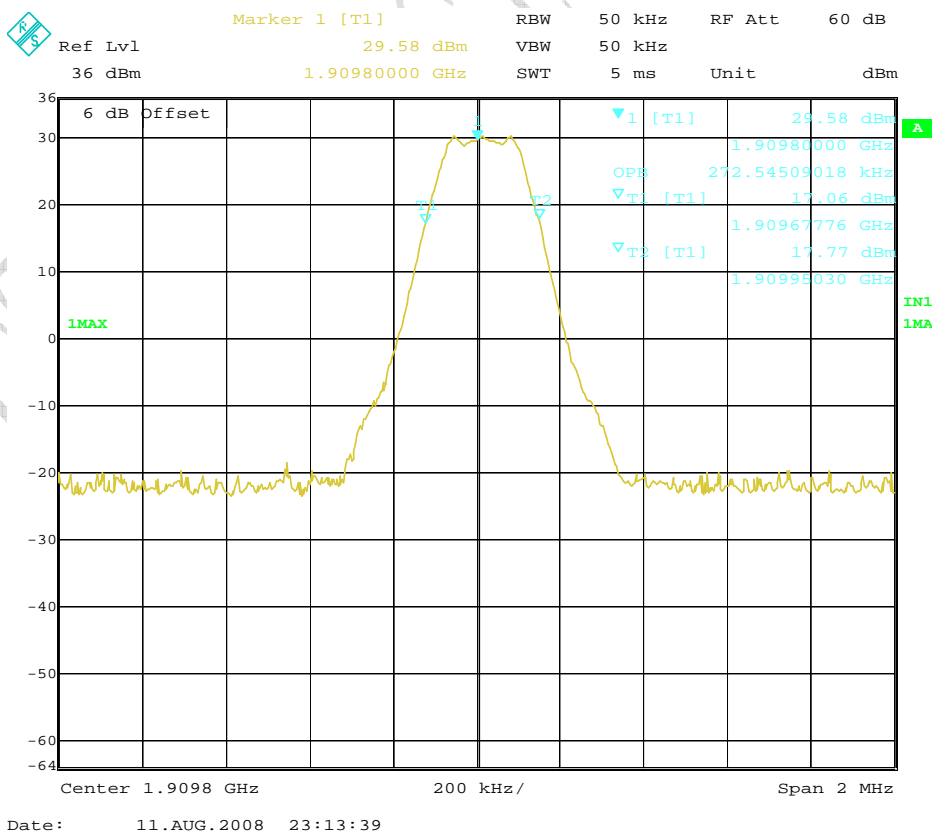
### Channel 512

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



### Channel 661



### Channel 810

#### 4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2008-08-11					
Test conditions:	Ambient Temperature: -30℃-50℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
561	Temperature Chamber	Terchy Environmental Technology LTD.	MHU-800SR	84121202	2009-05-06	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
Limit						
Frequency deviation [ppm]		±2.5				

#### Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The wireless communications test set (test simulator) was used to set the TX channel and power levels, modulate the TX signal with different bit patterns and measure the frequency of TX.

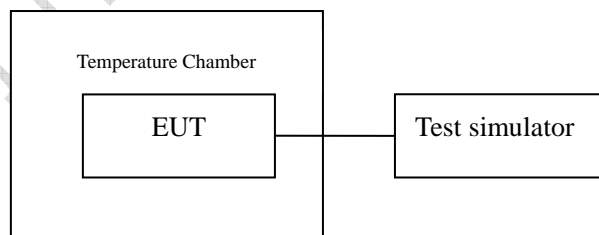


Figure T: setup for measurement of frequency stability over temperature variation

## Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30°C and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with 8960.
5. The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

## Test results data for GSM mode:

Channel 190:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	49	0.058	Pass
-20	43	0.051	Pass
-10	39	0.046	Pass
0	30	0.036	Pass
10	28	0.033	Pass
20	33	0.039	Pass
30	37	0.044	Pass
40	42	0.050	Pass
50	45	0.054	Pass

Channel 661:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	84	0.045	Pass
-20	75	0.040	Pass
-10	67	0.036	Pass
0	61	0.033	Pass
10	54	0.029	Pass
20	49	0.026	Pass
30	48	0.025	Pass
40	55	0.029	Pass
50	68	0.036	Pass

## Test results data for GPRS mode:

Channel 190:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	59	0.071	Pass
-20	50	0.060	Pass
-10	53	0.063	Pass
0	48	0.057	Pass
10	42	0.050	Pass
20	35	0.042	Pass
30	24	0.029	Pass
40	39	0.047	Pass
50	35	0.042	Pass

Channel 661:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	96	0.051	Pass
-20	98	0.052	Pass
-10	83	0.044	Pass
0	61	0.032	Pass
10	66	0.035	Pass
20	73	0.039	Pass
30	75	0.040	Pass
40	80	0.042	Pass
50	84	0.045	Pass

#### 4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2008-8-11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
7982	DC Power Source	4NIC	DH1715A-3	004224	--	Normal
Limit						
Frequency deviation [ppm]		±2.5				

#### Test Setup

The EUT was placed in a shielding chamber and powered by the dummy battery which is connected to a DC power source, demonstrated as figure V. The wireless communications test set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

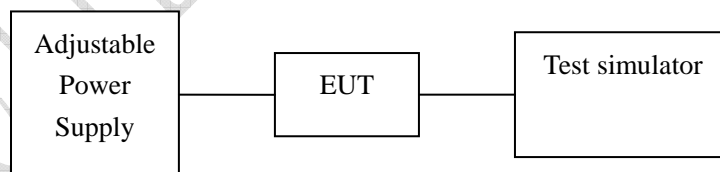


Figure V: test setup for measurement of frequency stability over voltage variation

## Test Results data for GSM mode:

Channel 190:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	20	0.024	Pass
Cut-off point	3.3	28	0.033	Pass

Channel 661:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	40	0.021	Pass
Cut-off point	3.4	45	0.024	Pass

## Test Results data for GPRS mode:

Channel 190:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	28	0.033	Pass
Cut-off point	3.4	36	0.043	Pass

Channel 661:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	37	0.020	Pass
Cut-off point	3.4	52	0.028	Pass



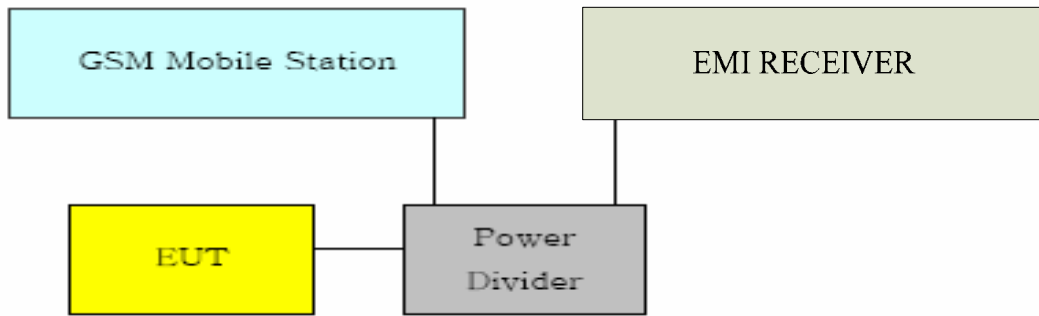
#### 4.6 Conducted RF Power Output

Specifications:	2.1046,22.913(a),24.232(c)					
Date of Tests	2008-8-11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2009-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limits for Radiated RF Power Output	
Frequency range	Limit Level (EIRP)/Resolution Bandwidth
TX channel	33dBm/1MHz
Limits for ERP	
Frequency range	Limit Level (ERP)
TX channel	7W

#### Test Setup:

During the process of testing, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26).



## Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note: --

## Test Results for GSM mode:

ERP Value for GSM 850 band:

ARFCN	Peak output power [dBm]
128	30.37
190	31.07
251	30.31

EIRP Value for GSM 1900 band:

ARFCN	Peak output power [dBm]
512	28.43
661	29.45
810	29.47

## Test Results for GPRS mode:

ERP Value for GPRS 850 band:

ARFCN	Peak output power [dBm]
128	30.41
190	31.09
251	30.36

EIRP Value for GPRS 1900 band:

ARFCN	Peak output power [dBm]
512	28.50
661	29.46
810	29.59

#### 4.7 Conducted Spurious Emission

Specifications:	2.1051,22.917,24.238					
Date of Tests	2008-8-11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2009-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

#### Limit Level Construction:

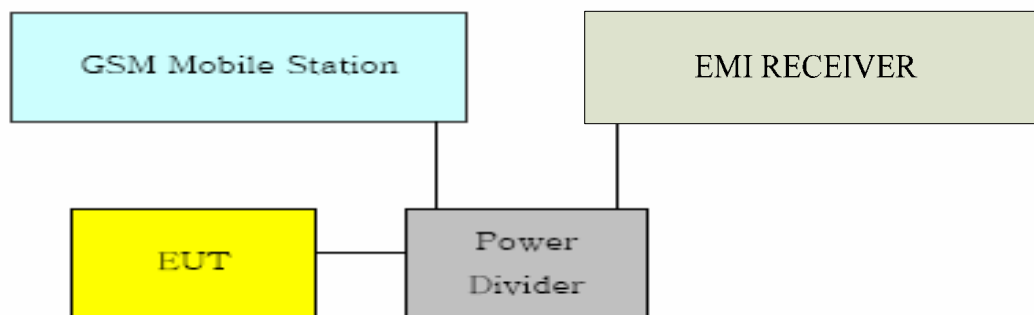
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB, so the limit level is:  
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

#### Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

#### Test Setup:

During the process of testing, the EUT was controlled via Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26)



## Test Method

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment under test, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

Note: --

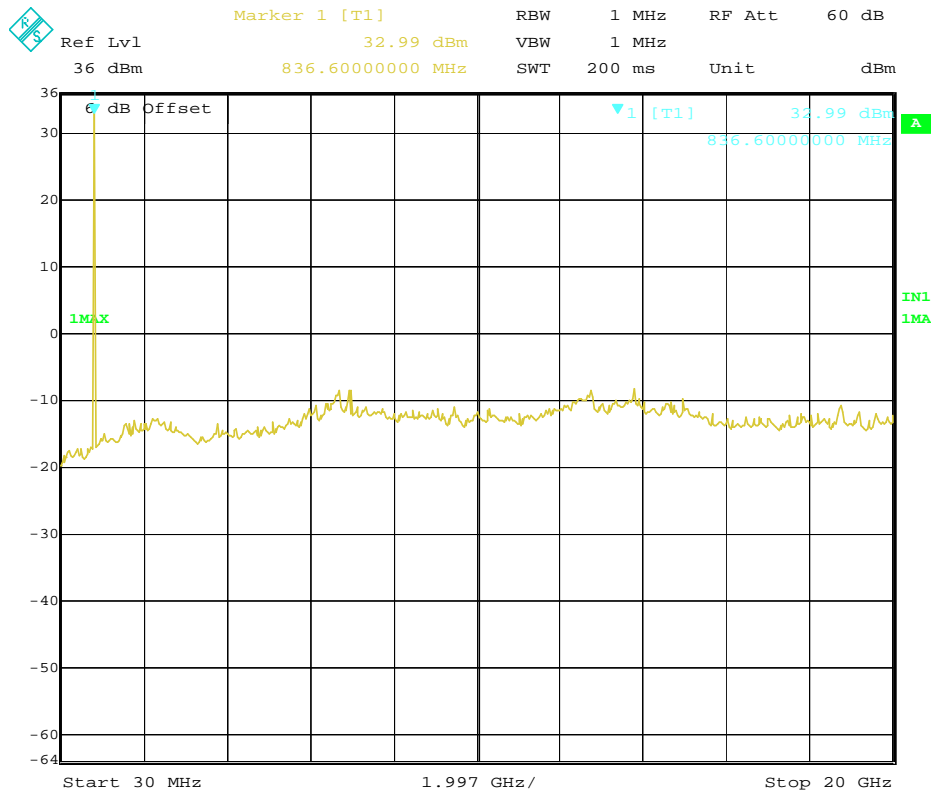
### Test Results for GSM mode:

Out of band emission	
Frequency [MHz]	Level (dBm)
--	--

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

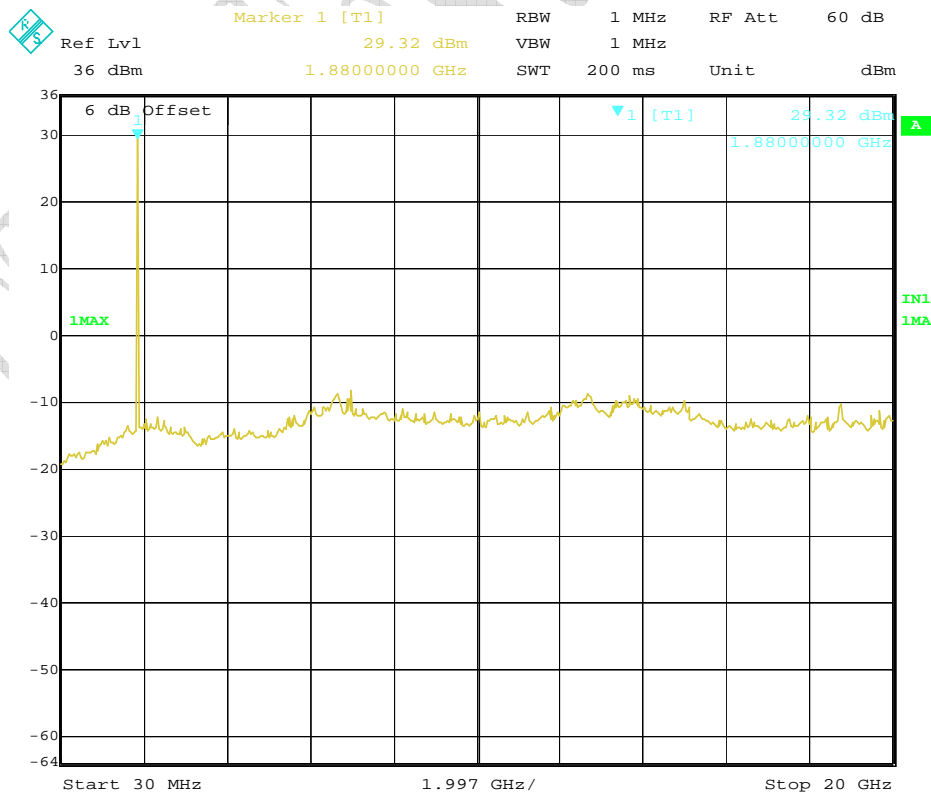
REPORT NO.: B08GE6080-FCC-EMC

### Graphical results for GSM mode:



Date: 11.AUG.2008 22:44:43

### Channel 190



Date: 11.AUG.2008 22:58:43

### Channel 661

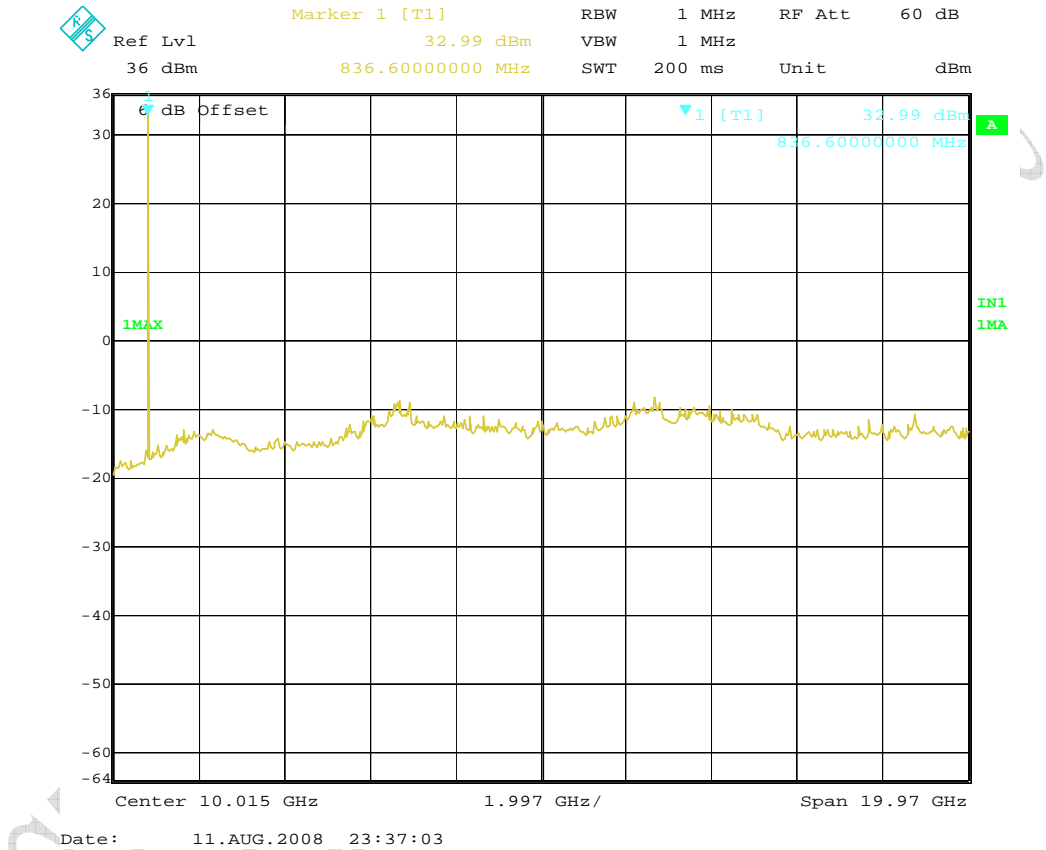
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC

Test Results for GPRS mode:

Out of band emission	
Frequency [MHz]	Level (dBm)
--	--

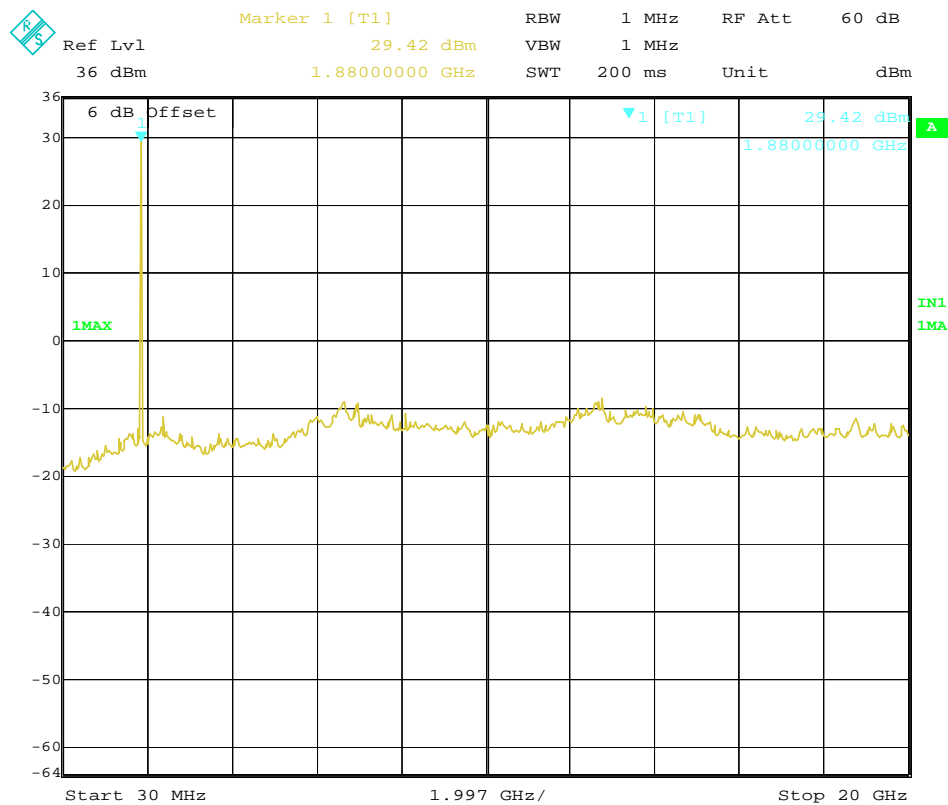
Graphical results for GPRS mode:



Channel 190

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Date: 11.AUG.2008 23:18:34

Channel 661



#### 4.8 Band Edge

Specifications:	2.1051, 24.238, 2.1053, 22.917					
Date of Tests	2008-8-11					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 251, 512 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2009-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

#### Limit Level Construction:

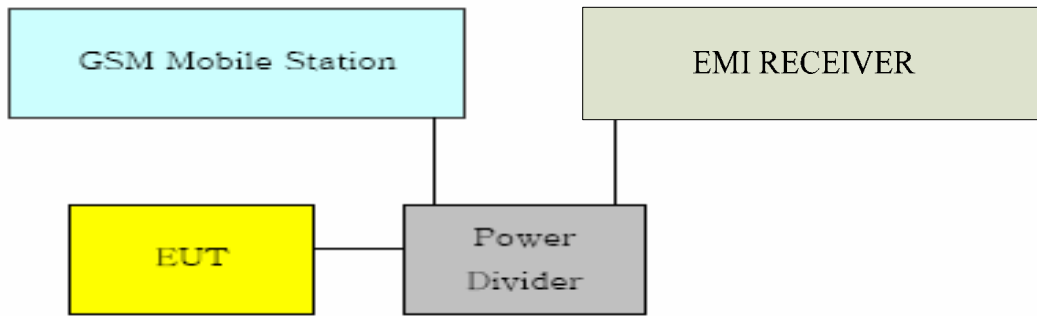
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB, so the limit level is:  
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

#### Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

#### Test Setup:

During the process of testing, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26).



## Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note: --

## Test Results:

### GSM mode:

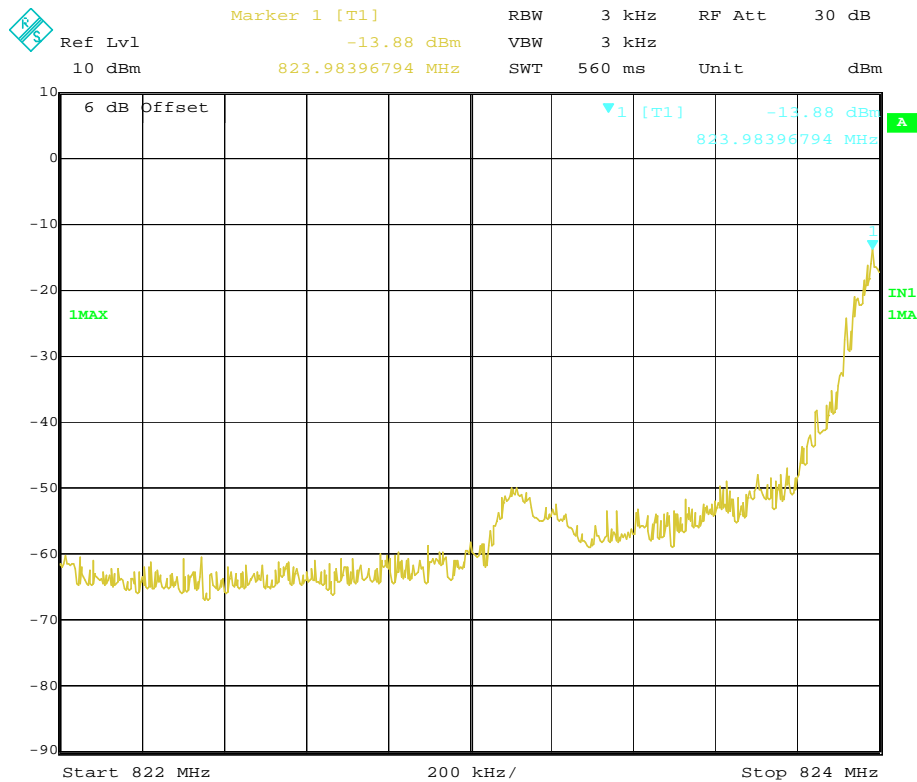
Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
128 Left band edge	823.983967	-13.88
251 Right band edge	849.000000	-16.34
512 Left band edge	1850.000000	-17.24
810 Right band edge	1910.000000	-18.97

### GPRS mode:

Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
128 Left band edge	824.000000	-17.17
251 Right band edge	849.000000	-15.85
512 Left band edge	1850.000000	-18.22
810 Right band edge	1910.000000	-17.37

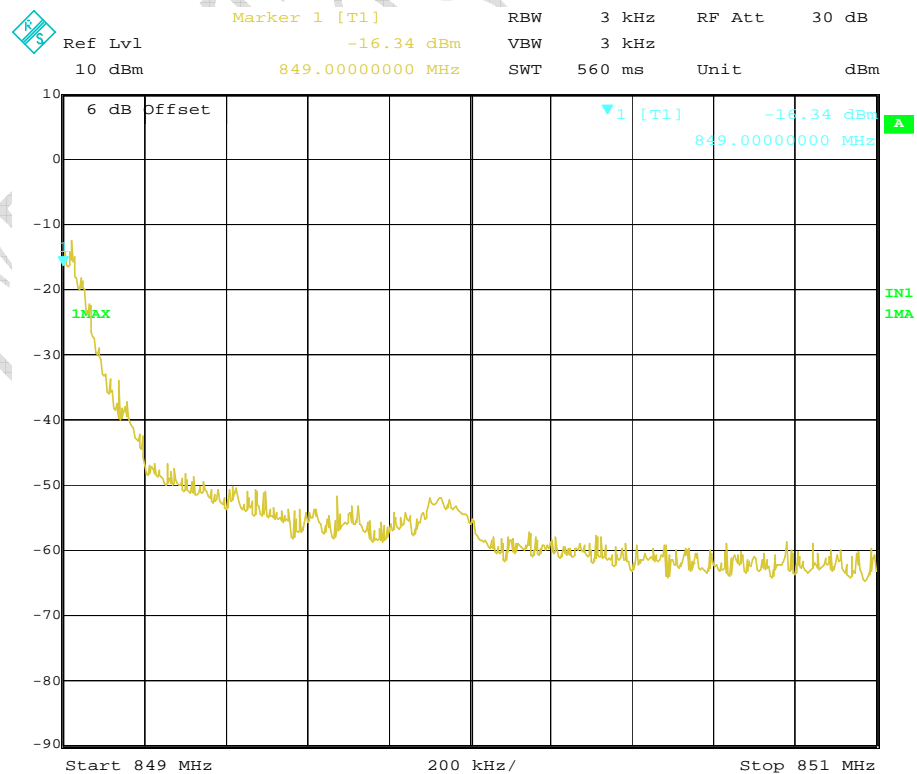
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Date: 11.AUG.2008 22:48:13

### GSM channel 128 Left band edge

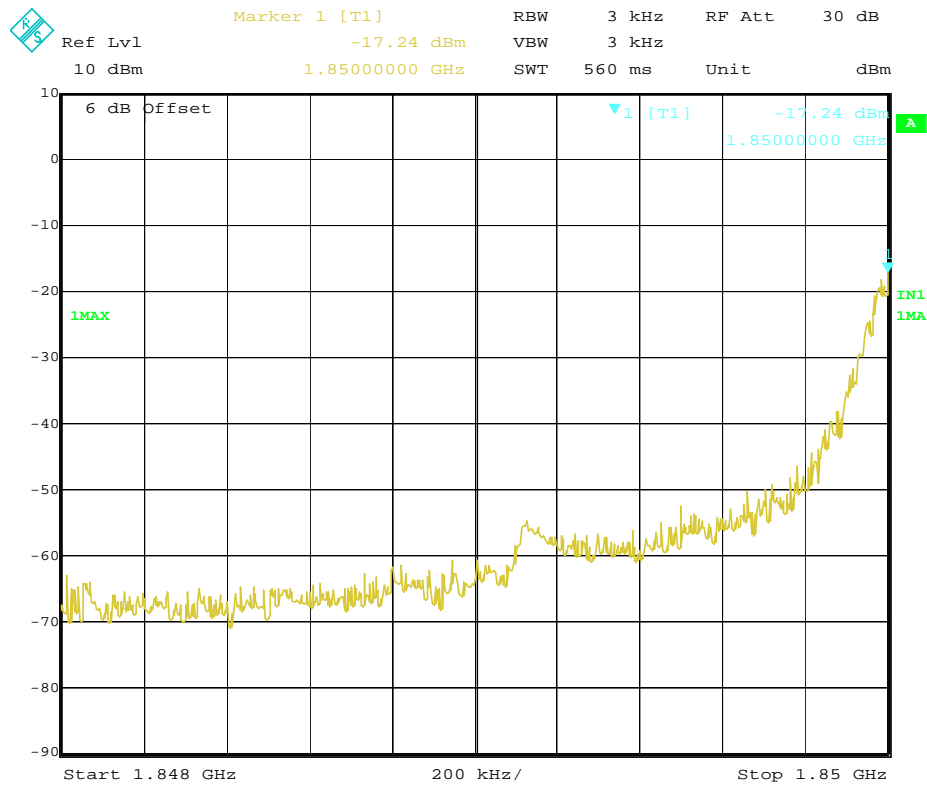


Date: 11.AUG.2008 22:50:09

### GSM channel 251 Right band edge

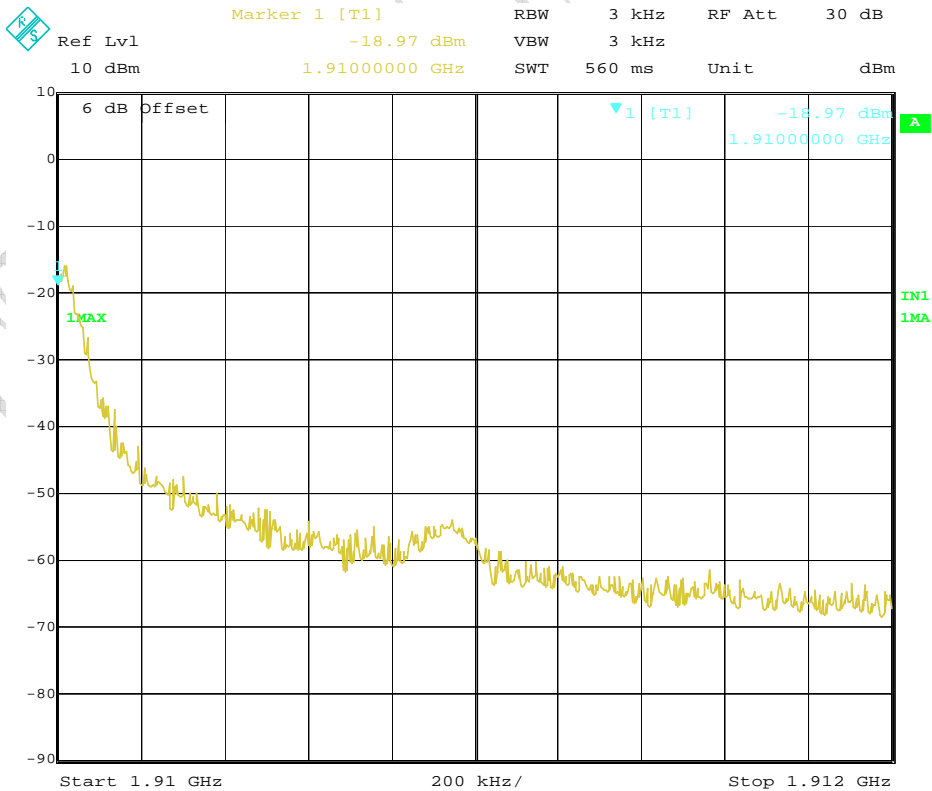
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Date: 11.AUG.2008 22:52:13

### GSM channel 512 Left band edge

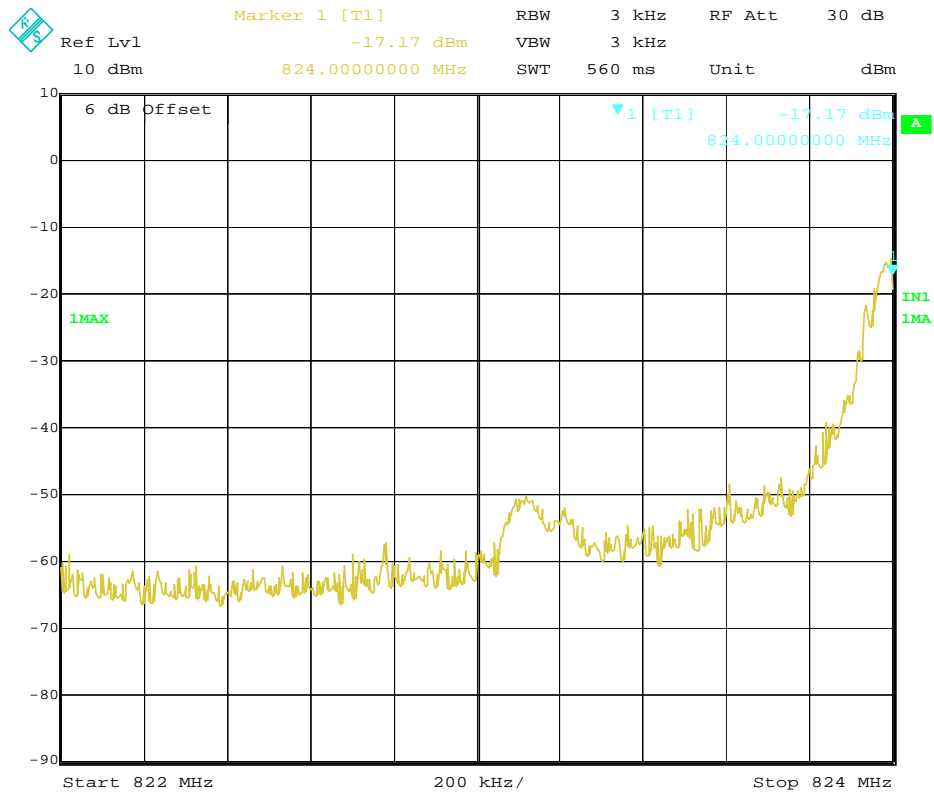


Date: 11.AUG.2008 22:53:20

### GSM channel 810 Right band edge

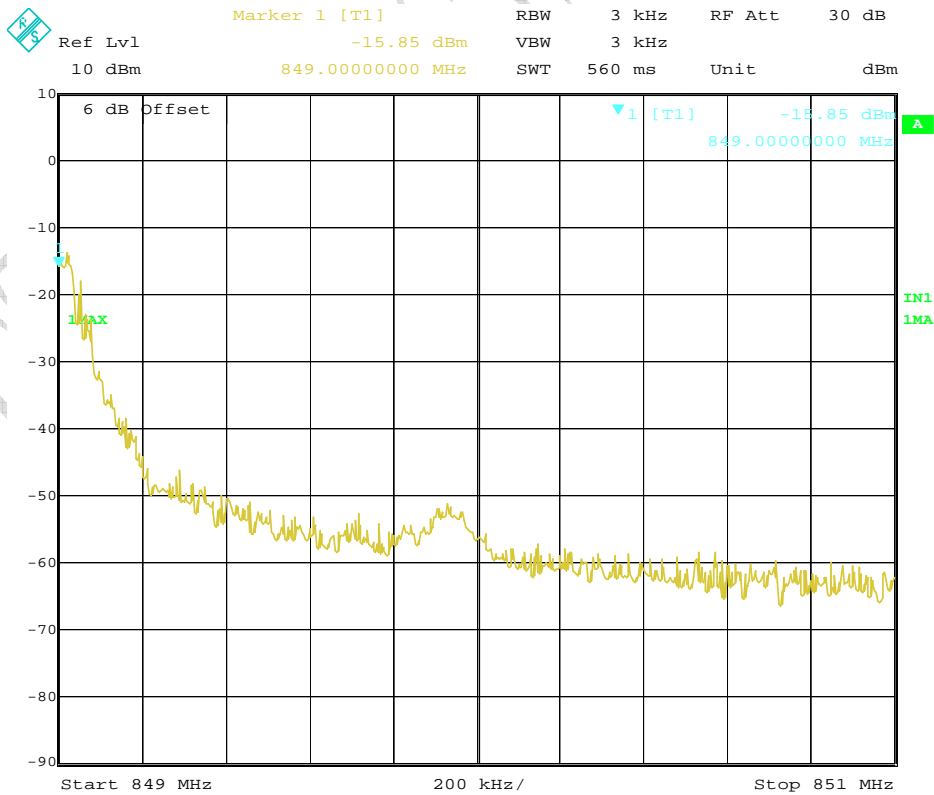
FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Date: 11.AUG.2008 23:38:23

### GPRS channel 128 Left band edge

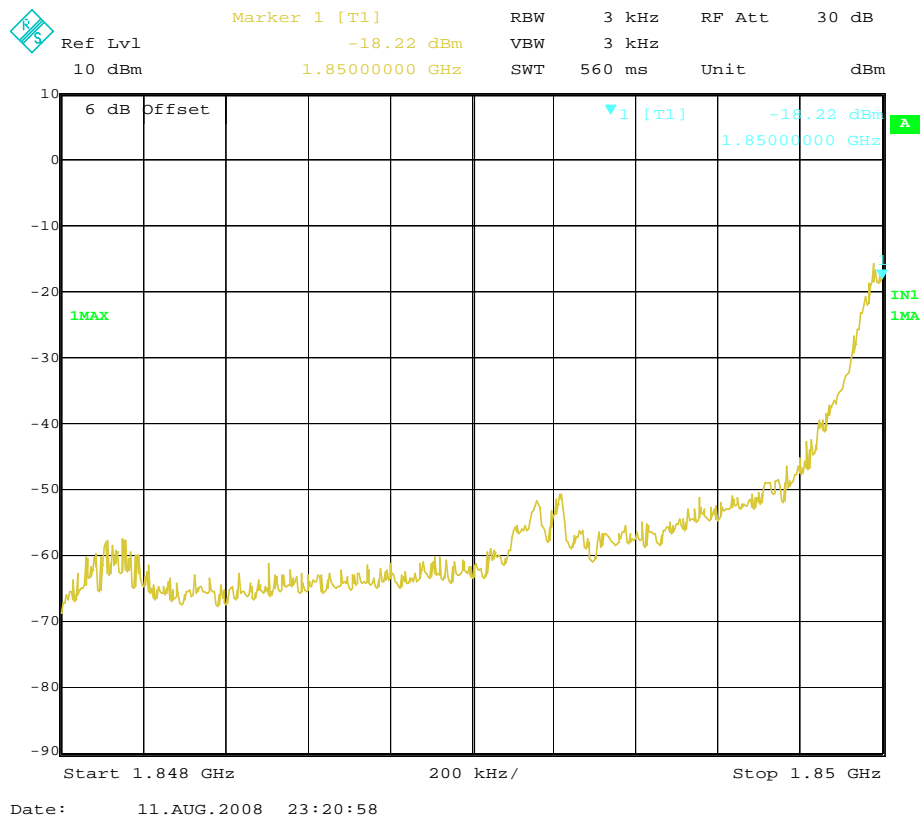


Date: 11.AUG.2008 23:39:18

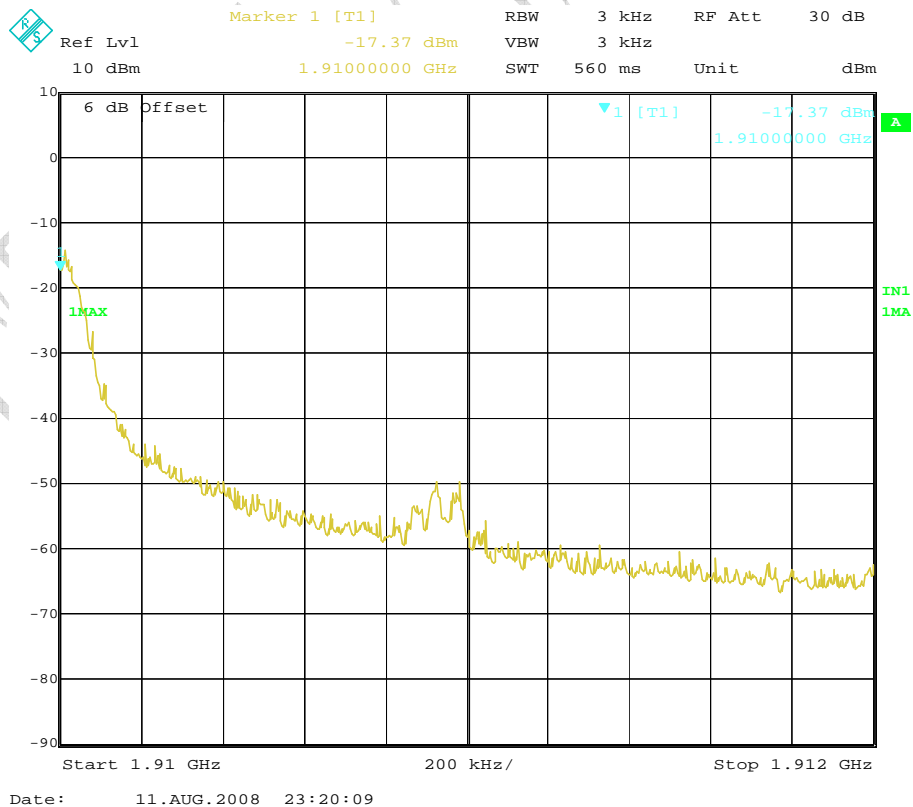
### GPRS channel 251 Right band edge

FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



GPRS channel 512 Left band edge

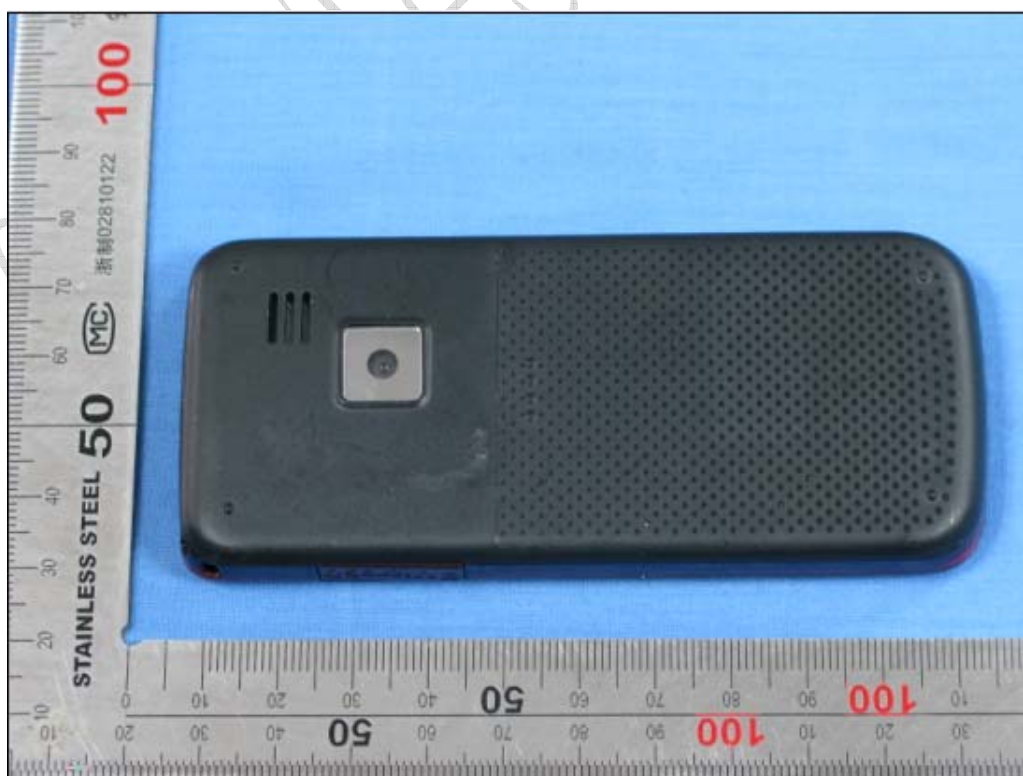


GPRS channel 810 Right band edge

## Annex A External Photos



Front view



Back view



FCC Parts 2, 22, 24  
Equipment: ZTE A261+

REPORT NO.: B08GE6080-FCC-EMC



Adaptor



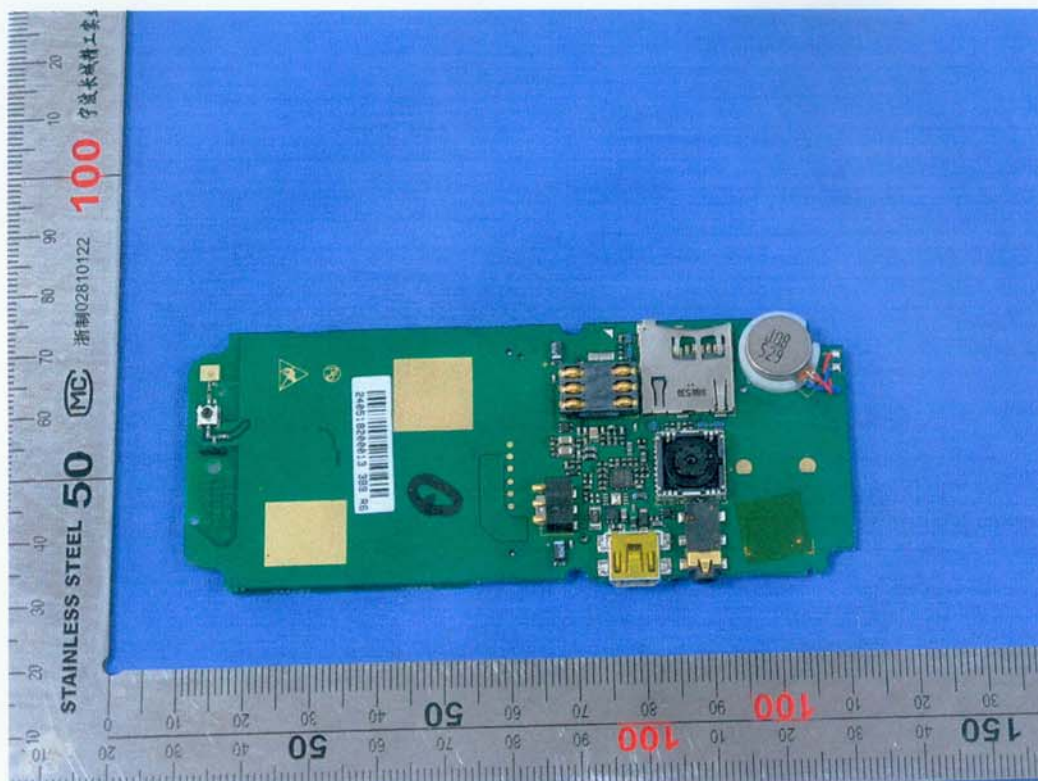
Cable



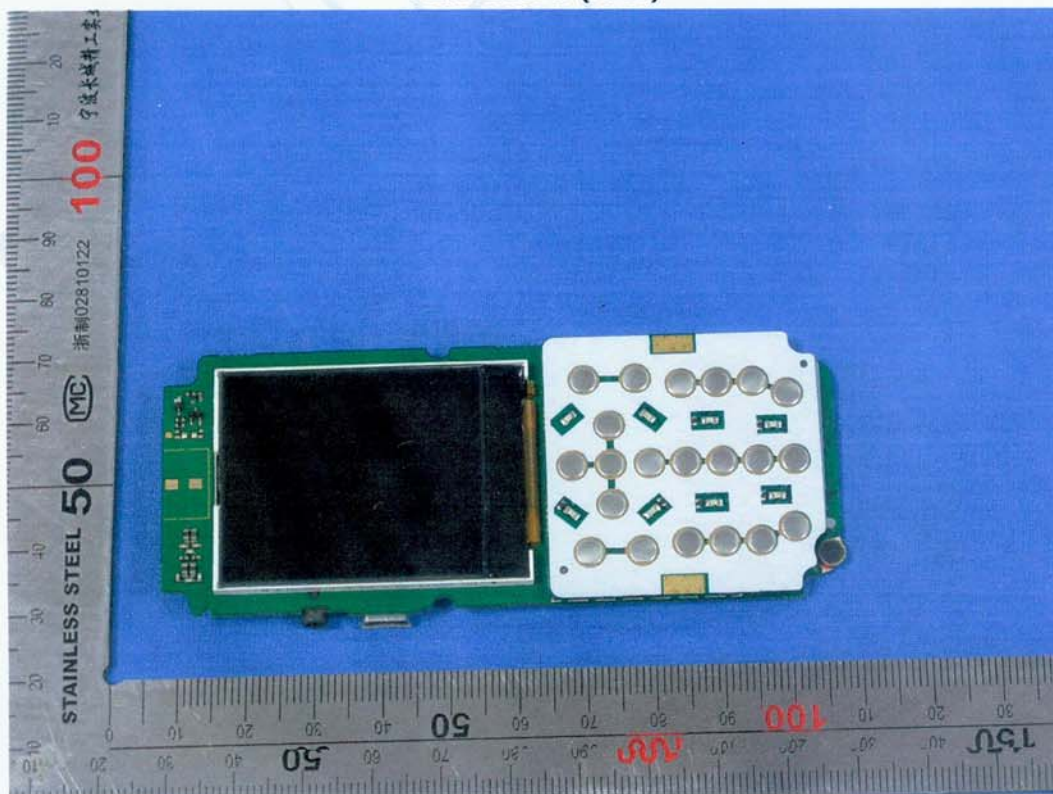


battery

## Annex B Internal Photos

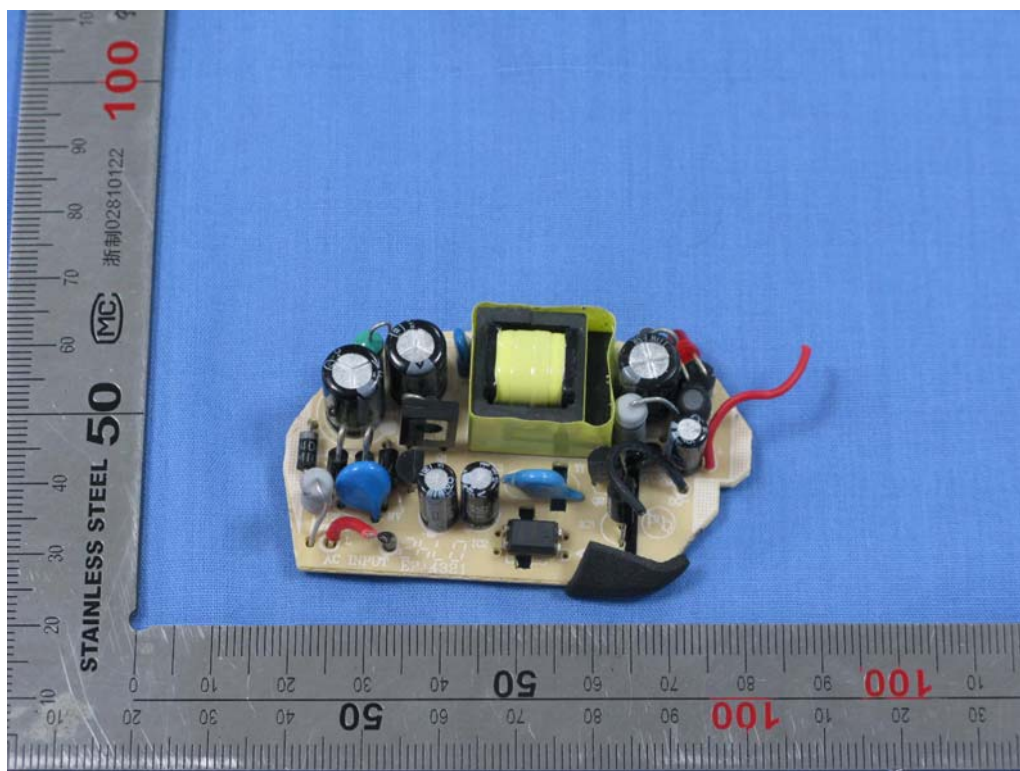


Main board (face)

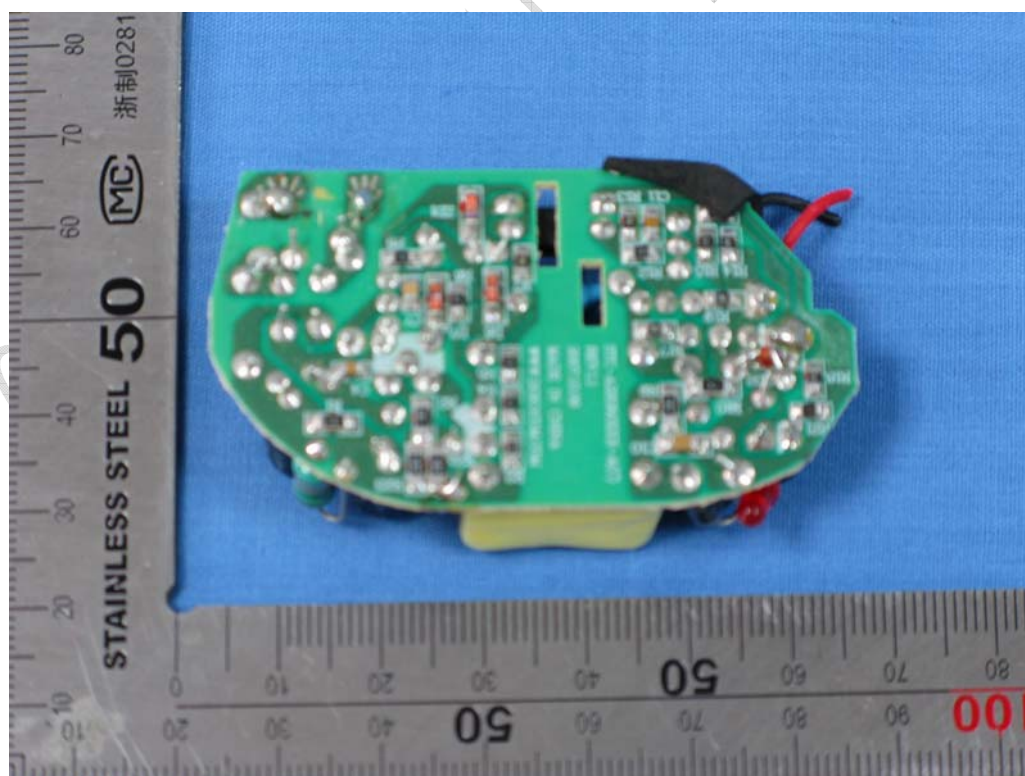


Main board (back)





Adaptor face



Adaptor back

## ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

———— The End of this Report ————

Test Report