



Variant FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : Wireless Access Terminal
BRAND NAME : ZTE
MODEL NAME : WF721
FCC ID : SRQ-WF721
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a variant report which is only valid together with the original test report. The product was received on Feb. 17, 2014 and testing was completed on Feb. 21, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) 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 to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



Testing Laboratory
2627

SPORTON INTERNATIONAL (KUNSHAN) INC.
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|----------------|-------------------------------------|--------------------------------------|--|--------|--|
| 3.1 | §2.1046 | Conducted Output Power | N/A | PASS | - |
| 3.2 | §22.913(a)(2) | Effective Radiated Power | < 7 Watts | PASS | - |
| 3.2 | §24.232(c) | Equivalent Isotropic Radiated Power | < 2 Watts | PASS | - |
| 3.3 | §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | $< 43 + 10 \log_{10}(P[\text{Watts}])$ | PASS | Under limit 32.53 dB at 5640.000 MHz |



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 | |
|---------------------------------|--------------------------|
| Equipment | Wireless Access Terminal |
| Brand Name | ZTE |
| Model Name | WF721 |
| FCC ID | SRQ-WF721 |
| EUT supports Radios application | GPRS/EGPRS/WCDMA/HSPA |
| HW Version | dekA |
| SW Version | WF721 1.0.1 |
| 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.

1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard | |
|---|--|
| Tx Frequency | GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz |
| Rx Frequency | GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz |
| Maximum Output Power to Antenna | GSM850 : 32.14 dBm GSM1900 : 28.70 dBm WCDMA Band V : 21.87 dBm WCDMA Band II : 21.85 dBm |
| Antenna Type | PCB Antenna |
| Type of Modulation | GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) |

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | System | Type of Modulation | Maximum ERP/EIRP (W) |
|----------|-------------|--------------------|----------------------|
| Part 22 | GSM850 GSM | GMSK | 1.28 |
| Part 24 | GSM1900 GSM | GMSK | 1.37 |



1.7 Testing Site

| | | | | |
|---------------------------|--|-----------|----------|-----------------------------|
| Test Site | SPORTON INTERNATIONAL (KUNSHAN) INC. | | | |
| Test Site Location | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958 | | | |
| Test Site No. | Sporton Site No. | | | FCC Registration No. |
| | TH01-KS | 03CH01-KS | OTA01-KS | 149928 |

1.8 Applied Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

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.

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 GSM850.
2. 30 MHz to 19000 MHz for GSM1900.

| Test Modes | | |
|------------|--------------|---------------|
| Band | Radiated TCs | Conducted TCs |
| GSM 850 | ■ GSM Link | ■ GSM Link |
| GSM 1900 | ■ GSM Link | ■ GSM Link |

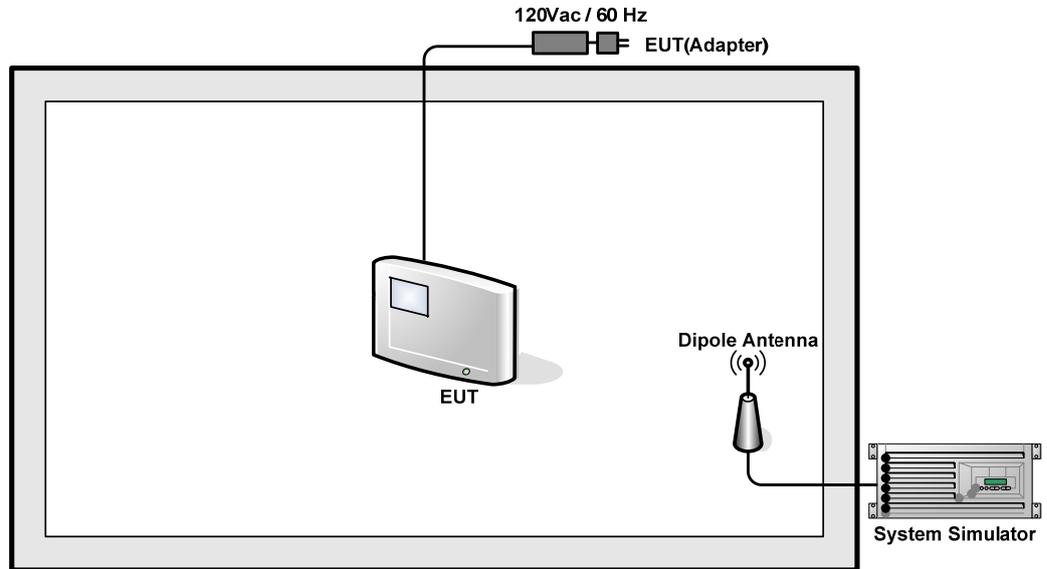
Note: The maximum power levels are GSM mode for GMSK link, only these modes were used for all tests.

The conducted power tables are as follows:

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------|-------|-------|---------|--------|--------|
| Band | GSM850 | | | GSM1900 | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| GSM | 32.14 | 32.08 | 32.00 | 28.49 | 28.70 | 28.24 |

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|-------|-------|---------------|--------|--------|
| Band | WCDMA Band V | | | WCDMA Band II | | |
| Channel | 4132 | 4182 | 4233 | 9262 | 9400 | 9538 |
| Frequency | 826.4 | 836.4 | 846.6 | 1852.4 | 1880.0 | 1907.6 |
| RMC 12.2K | 21.84 | 21.87 | 21.69 | 21.85 | 21.68 | 21.65 |

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

| 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. | DC Power Supply | GWINSTEK | GPS-3030D | FCC DoC | N/A | Unshielded, 1.8 m |

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

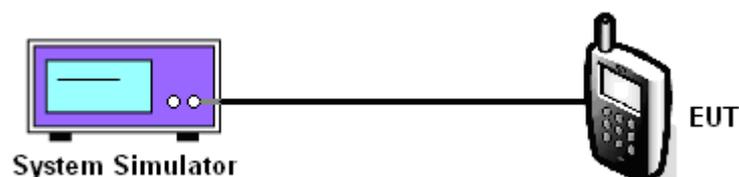
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

| Cellular Band | | | | | | |
|-------------------------|--------------|-----------|------------|-----------------------------|------------|-------------|
| Modes | GSM850 (GSM) | | | WCDMA Band V (RMC 12.2Kbps) | | |
| Channel | 128 (Low) | 189 (Mid) | 251 (High) | 4132 (Low) | 4182 (Mid) | 4233 (High) |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 | 826.4 | 836.4 | 846.6 |
| Conducted Power (dBm) | 32.14 | 32.08 | 32.00 | 21.84 | 21.87 | 21.69 |
| Conducted Power (Watts) | 1.64 | 1.61 | 1.58 | 0.15 | 0.15 | 0.15 |

| PCS Band | | | | | | |
|-------------------------|---------------|-----------|------------|------------------------------|------------|-------------|
| Modes | GSM1900 (GSM) | | | WCDMA Band II (RMC 12.2Kbps) | | |
| Channel | 512 (Low) | 661 (Mid) | 810 (High) | 9262 (Low) | 9400 (Mid) | 9538 (High) |
| Frequency (MHz) | 1850.2 | 1880 | 1909.8 | 1852.4 | 1880 | 1907.6 |
| Conducted Power (dBm) | 28.49 | 28.70 | 28.24 | 21.85 | 21.68 | 21.65 |
| Conducted Power (Watts) | 0.71 | 0.74 | 0.67 | 0.15 | 0.15 | 0.15 |

Note: Maximum burst average power for GSM, and maximum average power for WCDMA.



3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

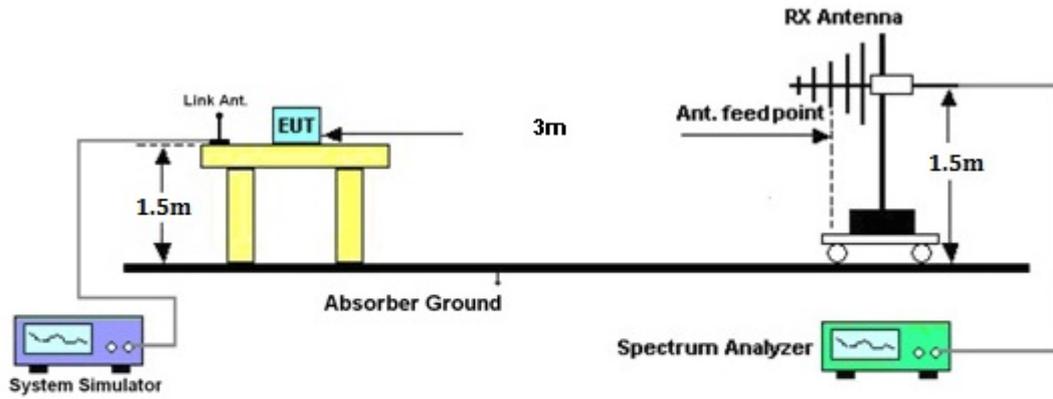
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

3.2.4 Test Setup





3.2.5 Test Result of ERP

| GSM850 (GSM) Radiated Power ERP | | | | | | |
|---------------------------------|----------|----------|----------|----------|-----------|---------|
| Horizontal Polarization | | | | | | |
| Frequency (MHz) | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBd) | ERP (dBm) | ERP (W) |
| 824.20 | -17.17 | -48.12 | 0.00 | -1.08 | 29.87 | 0.97 |
| 836.40 | -16.75 | -48.28 | 0.00 | -0.93 | 30.60 | 1.15 |
| 848.80 | -16.51 | -48.35 | 0.00 | -0.76 | 31.08 | 1.28 |
| Vertical Polarization | | | | | | |
| Frequency (MHz) | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBd) | ERP (dBm) | ERP (W) |
| 824.20 | -19.11 | -47.97 | 0.00 | -1.08 | 27.78 | 0.60 |
| 836.40 | -18.59 | -48.01 | 0.00 | -0.93 | 28.49 | 0.71 |
| 848.80 | -18.35 | -48.05 | 0.00 | -0.76 | 28.94 | 0.78 |

3.2.6 Test Result of EIRP

| GSM1900 (GSM) Radiated Power EIRP | | | | | | |
|-----------------------------------|----------|----------|----------|----------|------------|----------|
| Horizontal Polarization | | | | | | |
| Frequency (MHz) | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBi) | EIRP (dBm) | EIRP (W) |
| 1850.20 | -24.15 | -51.88 | 0.00 | 1.96 | 29.69 | 0.93 |
| 1880.00 | -23.71 | -52.99 | 0.00 | 2.00 | 31.28 | 1.34 |
| 1909.80 | -25.21 | -54.28 | 0.00 | 1.98 | 31.05 | 1.27 |
| Vertical Polarization | | | | | | |
| Frequency (MHz) | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBi) | EIRP (dBm) | EIRP (W) |
| 1850.20 | -24.30 | -52.13 | 0.00 | 1.96 | 29.79 | 0.95 |
| 1880.00 | -24.11 | -53.17 | 0.00 | 2.00 | 31.06 | 1.28 |
| 1909.80 | -24.73 | -54.13 | 0.00 | 1.98 | 31.38 | 1.37 |

3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

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 $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Measuring Instruments

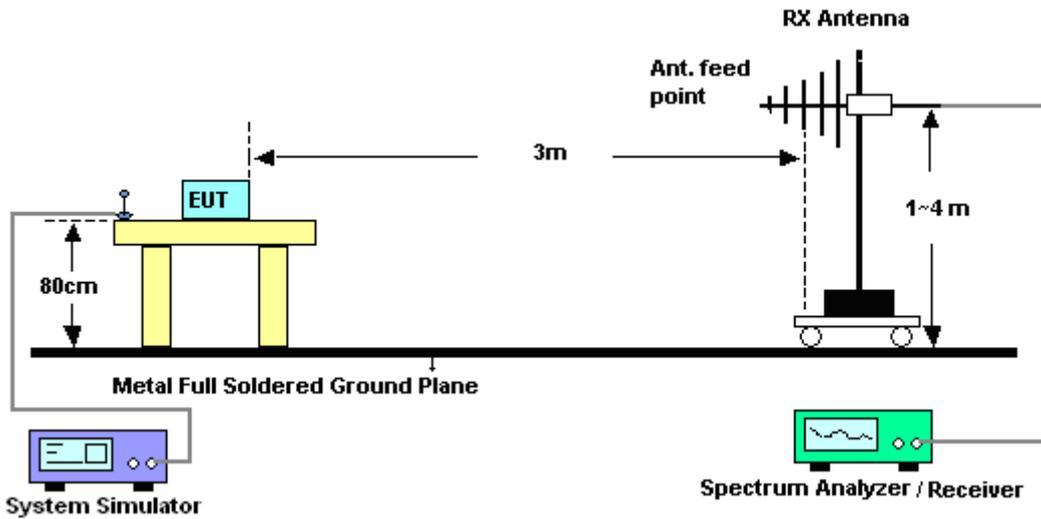
The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

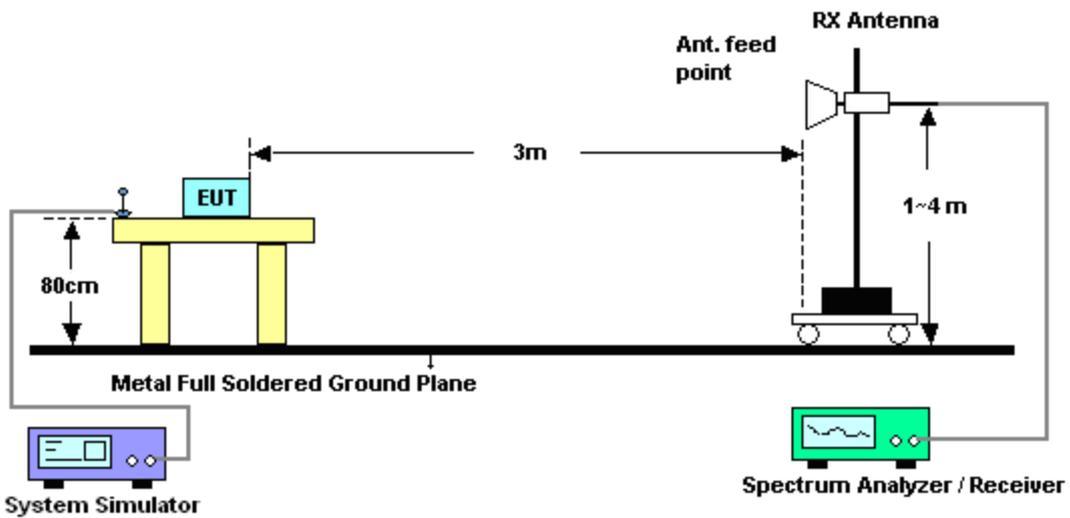
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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, 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
= -13dBm.
12. $EIRP$ (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13. ERP (dBm) = $EIRP - 2.15$

3.3.4 Test Setup

For radiated emissions from 30MHz to 1GHz



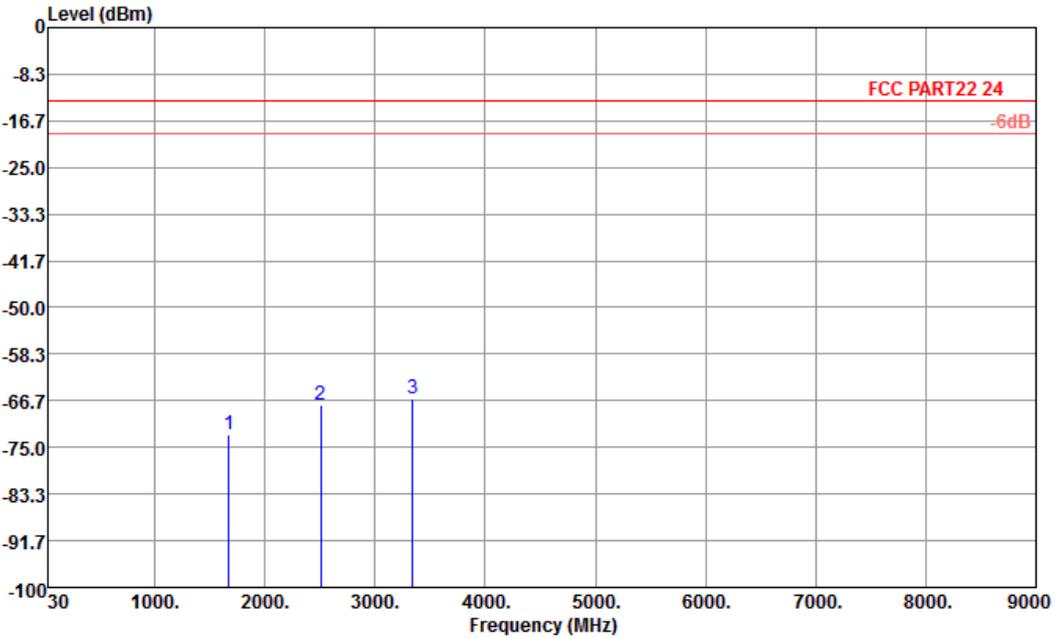
For radiated emissions above 1GHz





3.3.5 Test Result of Field Strength of Spurious Radiated

| | | | |
|-----------------|--|---------------------|------------|
| Band : | GSM850 | Temperature : | 22~23°C |
| Test Mode : | GSM Link (GMSK) | Relative Humidity : | 42~43% |
| Test Engineer : | Star Wei | Polarization : | Horizontal |
| Remark : | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | |

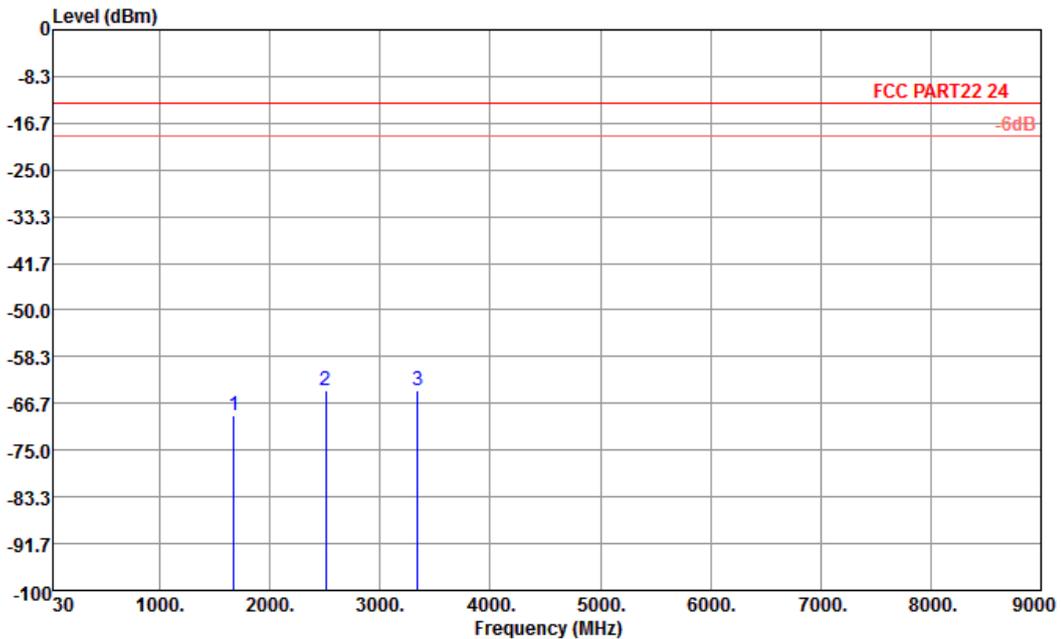


Site : 03CH01-KS
 Condition : FCC PART22 24 HF_EIRP_FACTOR130726 HORIZONTAL
 EUT : (FG) 3N2101-05

| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
|-------------------|-------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 1670 | -72.71 | -13 | -59.71 | -63.83 | -73.36 | 0.57 | 3.37 | H | Pass |
| 2508 | -67.39 | -13 | -54.39 | -66.06 | -69.62 | 0.78 | 5.16 | H | Pass |
| 3344 | -66.27 | -13 | -53.27 | -65.90 | -69.91 | 0.87 | 6.66 | H | Pass |



| | | | |
|------------------------|--|----------------------------|----------|
| Band : | GSM850 | Temperature : | 22~23°C |
| Test Mode : | GSM Link (GMSK) | Relative Humidity : | 42~43% |
| Test Engineer : | Star Wei | Polarization : | Vertical |
| Remark : | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | |

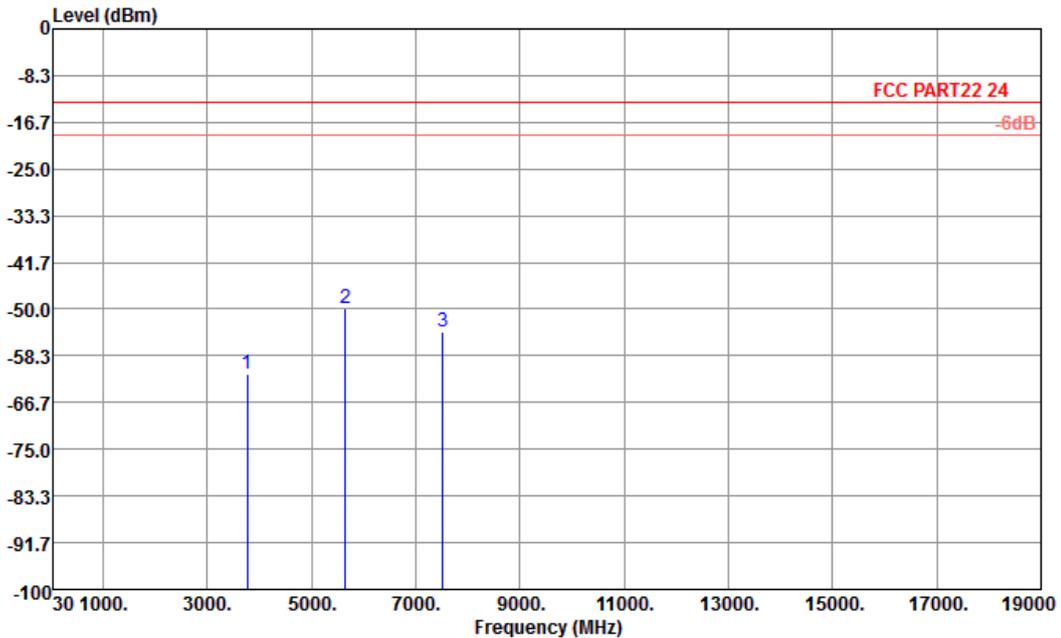


Site : 03CH01-KS
 Condition : FCC PART22 24 HF_EIRP_FACTOR130726 VERTICAL
 EUT : (FG) 3N2101-05

| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
|-------------------|-------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 1672 | -68.73 | -13 | -55.73 | -64.93 | -69.38 | 0.57 | 3.37 | V | Pass |
| 2508 | -64.29 | -13 | -51.29 | -66.72 | -66.52 | 0.78 | 5.16 | V | Pass |
| 3344 | -64.48 | -13 | -51.48 | -65.54 | -68.12 | 0.87 | 6.66 | V | Pass |



| | | | |
|------------------------|--|----------------------------|------------|
| Band : | GSM1900 | Temperature : | 22~23°C |
| Test Mode : | GSM Link (GMSK) | Relative Humidity : | 42~43% |
| Test Engineer : | Star Wei | Polarization : | Horizontal |
| Remark : | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | |

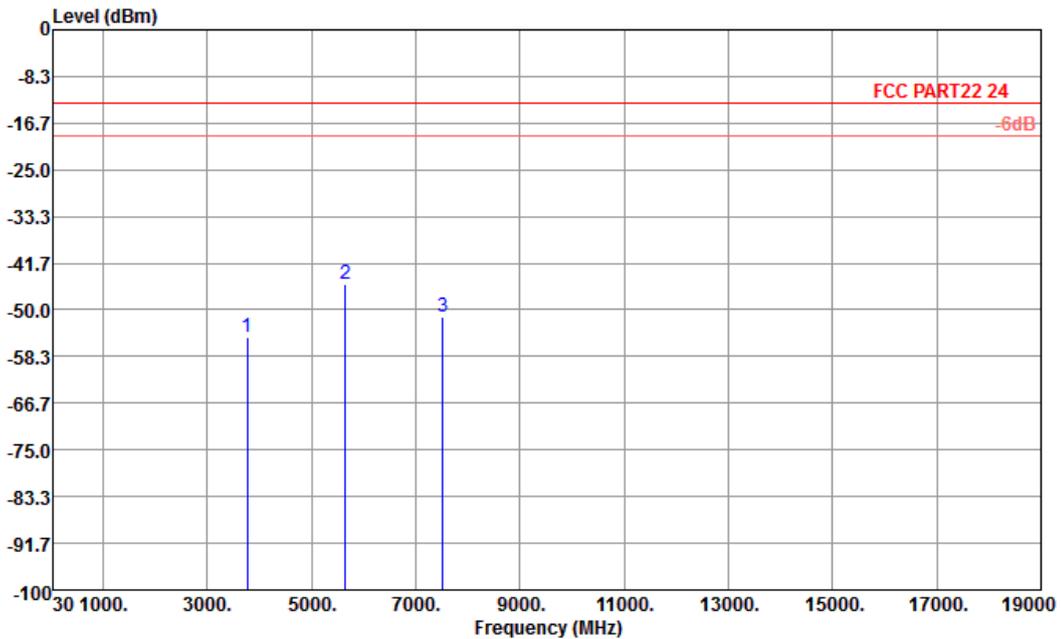


Site : 03CH01-KS
 Condition : FCC PART22 24 HF_EIRP_FACTOR130726 HORIZONTAL
 EUT : (FG) 3N2101-05

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
|----------------------|-----------------|------------------|-------------------------|---------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| 3760 | -61.56 | -13 | -48.56 | -64.91 | -67.94 | 0.78 | 7.16 | H | Pass |
| 5640 | -49.87 | -13 | -36.87 | -61.20 | -58.41 | 1.04 | 9.58 | H | Pass |
| 7520 | -54.07 | -13 | -41.07 | -65.61 | -64.18 | 1.35 | 11.46 | H | Pass |



| | | | |
|------------------------|--|----------------------------|----------|
| Band : | GSM1900 | Temperature : | 22~23°C |
| Test Mode : | GSM Link (GMSK) | Relative Humidity : | 42~43% |
| Test Engineer : | Star Wei | Polarization : | Vertical |
| Remark : | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | |



Site : 03CH01-KS
 Condition : FCC PART22 24 HF_EIRP_FACTOR130726 VERTICAL
 EUT : (FG) 3N2101-05

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
|-------------------|--------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 3760 | -54.99 | -13 | -41.99 | -63.39 | -61.37 | 0.78 | 7.16 | V | Pass |
| 5640 | -45.53 | -13 | -32.53 | -59.86 | -54.07 | 1.04 | 9.58 | V | Pass |
| 7520 | -51.39 | -13 | -38.39 | -65.48 | -61.50 | 1.35 | 11.46 | V | Pass |



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|--------------|-----------|------------|-----------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSP40 | 100319 | 9kHz~40GHz | Dec. 28, 2013 | Feb. 21, 2014 | Dec. 27, 2014 | Conducted (TH01-KS) |
| Spectrum Analyzer | R&S | FSP30 | 101399 | 9kHz~30GHz | May 23, 2013 | Feb. 21, 2014 | May 22, 2014 | Radiation (03CH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | N/A | Feb. 28, 2013 | Feb. 21, 2014 | Feb. 27, 2014 | Conducted (TH01-KS) |
| Pulse Power Sensor | Anritsu | MA2411B | 0917070 | N/A | Feb. 28, 2013 | Feb. 21, 2014 | Feb. 27, 2014 | Conducted (TH01-KS) |
| Thermal Chamber | Ten Billion | TTC-B3S | TBN-960502 | (-40~+150) | Dec. 10, 2013 | Feb. 21, 2014 | Dec. 09, 2014 | Conducted (TH01-KS) |
| EMI Test Receiver | R&S | ESCI | 100534 | 9kHz~3GHz | Nov. 05, 2013 | Feb. 18, 2014 | Nov. 04, 2014 | Radiation (03CH01-KS) |
| Spectrum Analyzer | R&S | FSP30 | 101399 | 9kHz~30GHz | May 23, 2013 | Feb. 18, 2014 | May 22, 2014 | Radiation (03CH01-KS) |
| Bilog Antenna | SCHAFFNER | CBL6112D | 23182 | 25MHz~2GHz | Dec. 06, 2013 | Feb. 18, 2014 | Dec. 05, 2014 | Radiation (03CH01-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz-30MHz | Oct. 09, 2013 | Feb. 18, 2014 | Oct. 08, 2014 | Radiation (03CH01-KS) |
| Double Ridge Horn Antenna | EMCO | 3117 | 75959 | 1GHz~18GHz | Dec. 07, 2013 | Feb. 18, 2014 | Dec. 06, 2014 | Radiation (03CH01-KS) |
| Amplifier | com-power | PA-103A | 161069 | 1MHz~1GHz | May 23, 2013 | Feb. 18, 2014 | May 22, 2014 | Radiation (03CH01-KS) |
| Amplifier | Agilent | 8449B | 3008A02370 | 1GHz~26.5GHz | Dec. 29, 2013 | Feb. 18, 2014 | Dec. 28, 2014 | Radiation (03CH01-KS) |
| Active Horn Antenna | com-power | AHA-118 | 701030 | 1GHz~18GHz | Nov. 18, 2013 | Feb. 18, 2014 | Nov. 17, 2014 | Radiation (03CH01-KS) |
| SHF-EHF Horn | Schwarzbeck | BBHA 9170 | BBHA170249 | 15GHz~40GHz | Nov. 23, 2013 | Feb. 18, 2014 | Nov. 22, 2014 | Radiation (03CH01-KS) |
| Turn Table | MF | MF7802 | N/A | 0 ~ 360 degree | N/A | Feb. 18, 2014 | N/A | Radiation (03CH01-KS) |
| Antenna Mast | MF | MF7802 | N/A | 1 m - 4 m | N/A | Feb. 18, 2014 | N/A | Radiation (03CH01-KS) |



| | | | | | | | | |
|------------------------------|--------------|-----------|------------|------------------------|--------------|---------------|--------------|---------------------|
| Spectrum Analyzer | R&S | FSP 7 | 100819 | 9kHz~7GHz | May 23, 2013 | Feb. 18, 2014 | May 22, 2014 | ERP/EIRP (OTA01-KS) |
| Switch Control Manframe | Agilent | 3499A | MY42005452 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Dual 1-to-6(4) MW MUX | Agilent | N2276A | MY42000841 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Microwave Switch | Agilent | 44476A | MY42002573 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Microwave Switch | Agilent | 44476A | MY42002586 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Diagonal Dual Polarized Horn | ETS-Lindgren | 3164-04 | 00066993 | 700MHz~6GHz | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Multi-Devices Controller | ETS-Lindgren | 2090-OPT1 | 00066604 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Conical Log Spiral (Small) | ETS-Lindgren | 3102 | 00066951 | 1~10GHz | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Turn Table | ETS-Lindgren | 2088 | N/A | Resolution : 0.1degree | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Limiting Amplifier | ETS-lindgren | 109643 | 920326 | 10M~2.5GHz | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| EMQuest | ETS-Lindgren | EMQ-100 | 1125 | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |
| Medium Duty Holder | ETS-Lindgren | 2015 | N/A | N/A | N/A | Feb. 18, 2014 | N/A | ERP/EIRP (OTA01-KS) |



5 Uncertainty of Evaluation

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.54 |
|---|------|



Appendix A. Photographs of EUT

Please refer to Sporton report number EP3N2101-05 as below.



Appendix C. Product Equality Declaration

ZTE CORPORATION**Product Change Description**

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

[WF721]
[ZTE Corporation]

is the variant of the initial certified product,

[WF721]
[ZTE Corporation]

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO
MMS/STK changes: NO
JAVA changes: NO
Other changes detailed: NO

HARDWARE MODIFICATION:

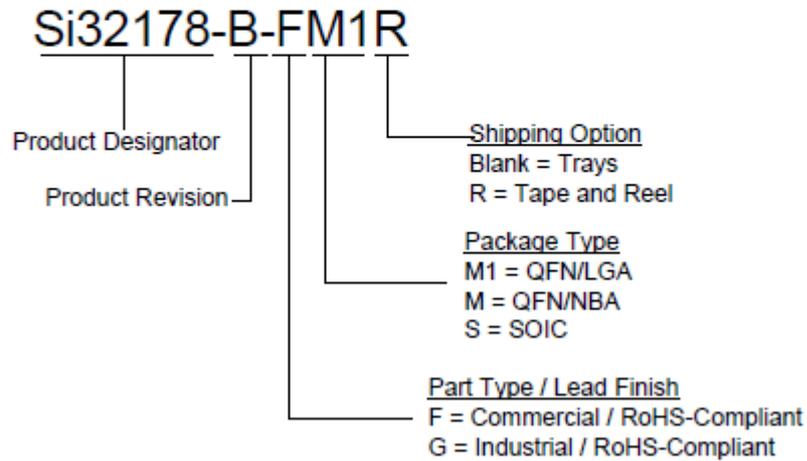
Band changes: NO
Power Amplifier changes: NO
Antenna changes: NO
PCB Layout changes: NO
Components on PCB changes: NO
LCD changes: NO
Speaker changes: NO
Camera changes: NO
Vibrator changes: NO
Bluetooth changes: NO
FM changes: NO
Other changes: change OPN of SLIC Component

| Existing OPN | Replacement OPN |
|-----------------|------------------|
| Si32171-B-FM(R) | Si32171-B-FM1(R) |

11. Product Identification

The product identification number is a finished goods part number or is specified by a finished goods part number, such as a special customer part number.

Example:



Si3217x-3291xRev1
_4. pdf

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO
Mechanical shell changes: NO
Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO
AC Adaptor changes: NO
Earphone changes: NO

APPROVED BY:



Project Manager: Zhaoyang

Date: 2014.1.3

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