



Certificate Number: 5055.02

# TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2022-9004(F)-22070702(B)

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 24E, Part 22H, Part 27, Part 2 (2021)

FCC ID: SRQ-ZTEA52LITE2

The State Radio\_monitoring\_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District, Beijing, P.R.China

Tel: 86-10-57996183 Fax: 86-10-57996388



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#### 1. GENERAL INFORMATION

#### 1.1 Notes of the test report

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The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

#### 1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu Jia
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Fax:	+86 10 57996388
Email:	liujiaf@srtc.org.cn
Designation Number:	CN1267
Registration number:	239125

#### 1.3 Applicant's details

Company:	ZTE Corporation			
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park,			
Audiess.	Nanshan District, Shenzhen, Guangdong, 518057, P.R.China			

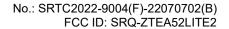
#### 1.4 Manufacturer's details

Company:	ZTE Corporation				
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park,				
Address.	Nanshan District, Shenzhen, Guangdong, 518057, P.R.China				

#### 1.5 Test Environment

Date of Receipt of test sample at SRTC:	2022-03-14
Testing Start Date:	2022-03-16
Testing End Date:	2022-03-18

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Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	40
Maximum Extreme	55	
Minimum Extreme	-10	

Normal Supply Voltage (V d.c.):	3.85
Maximum Extreme Supply Voltage (V d.c.):	4.20
Minimum Extreme Supply Voltage (V d.c.):	3.50

### **2 DESCRIPTION OF THE DEVICE UNDER TEST**

#### 2.1Final Equipment Build Status

Frequency Range:	WCDMA Band II: Tx:1852.4~1907.6MHz Rx:1932.4~1987.6MHz WCDMA Band IV: Tx:1712.4~1752.6MHz Rx:2112.4~2152.6MHz WCDMA Band V: Tx:826.4~846.6MHz Rx:871.4~891.6MHz
Mode:	HSDPA/HSUPA/HSPA+/DC-HSDPA
Emission Designator:	4M50F9W
Duplex Mode:	FDD
Duplex Spacing:	WCDMA Band II:80MHz WCDMA Band IV:400MHz WCDMA Band V:45MHz
Antenna Type:	FPC Antenna
Antenna Gain:	WCDMA Band II: 0.54dBi WCDMA Band IV: 0.09dBi WCDMA Band V: -2.55dBi ERP = EIRP(Power+Gain) – 2.15 (dB)
Power Supply:	DC supply
Software Revision:	W1.0.0_A52_Lite_TEL (SW_M19966HA1_V005_M10_NF_ZTE_A52_LITE_USR_TEST)
Hardware Revision:	19966_1_10
IMEI:	863225060006250

#### 2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing: N/A

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#### **3 REFERENCE SPECIFICATION**

Specification	Version	Title
FCC Part2	2021	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2021	Public mobile services
FCC Part24	2021	Personal communications services
FCC Part27	2021	Miscellaneous wireless communications services
ANSI C63.26	2015	American national standard for compliance testing of transmitters used in licensed radio services
KDB 971168	April 9,	Measurement guidance for certification of licensed digital
D01	2018	transmitters
TIA-603-E-2016	March 2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

## **4 KEY TO NOTES AND RESULT CODES**The following are the definition of the test result.

Code	Meaning	
PASS	Test result shows that the requirements of the relevant specification have been met.	
FAIL	Test result shows that the requirements of the relevant specification have not been met.	
NT	Normal Temperature	
NV	Nominal voltage	
HV	High voltage	
LV	Low voltage	



### **5 RESULT SUMMARY**

No.	Test case	FCC reference	Verdict
1	RF Power Output	2.1046	Pass
2	Effective Radiated Power and Effective Isotropic Radiated Power	22.913(a),24.232(c),27.50(d)( 4)	Pass
3	Occupied Bandwidth	2.1049	Pass
4	Emission Bandwidth	2.1049	Pass
5	Spurious Emissions at antenna terminal	2.1051,22.917(a),24.238(a),27.53(h)	Pass
6	Band Edges Compliance	2.1051,22.917(a),24.238(b),27.53(h)	Pass
7	Frequency Stability	2.1055,22.355,24.235,27.54	Pass
8	Radiated Spurious Emissions	2.1053,22.917(a),24.238(a),27.53(h)	Pass
9	Peak-Average Ratio	24.232(d),27.50(d) (5)	Pass

This Test Report Is Issued by: Mr. Peng Zhen	Checked by: Mr. Li Bin
Tested by: Mr. Liu Ce 文リ策	Issued date: 20220714

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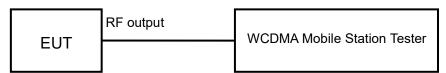


#### **6 TEST RESULT**

#### **6.1 RF Power Output**

Rule Part(s): 2.1046

Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels (Low, middle and High channels).

Limits: Limits: No specific conduct power requirements in part 2.1046.

#### Test result:

The test results are shown in Appendix A.

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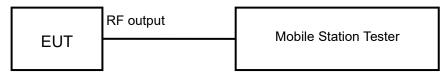


#### 6.2 Effective Radiated Power and Effective Isotropic Radiated Power

Rule Part(s):

FCC: 22.913(a) (5), 24.232(c), 27.50(d) (4)

Test setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 5.6

**Test Settings** 

Subclause 5.2.5.5 of ANSI C63.26-2015 is applicable, along with the following provisions. For personal/portable radios utilizing an integral antenna, the factor LC is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant. The minimum cable loss should be used in this equation.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

ERP/EIRP = PMeas - LC + GT

Where:

ERP/EIRP = effective or equivalen radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

#### **ERP/EIRP LIMIT**

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP – 2.15 (dB).

22.913(a) (5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts. 24.232(c)

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications. 27.50(d) (4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

Test result:

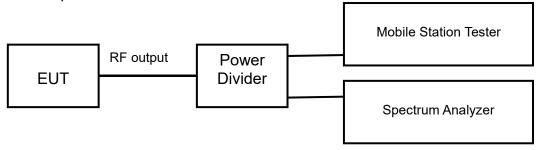
The test results are shown in Appendix A.



#### 6.3 Occupied Bandwidth

Rule Part(s): FCC: 2.1049

Test Setup:



#### Test procedure:

KDB 971168 D01 v03r01 - Section 4.2

#### **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3.  $VBW \ge 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

#### Test result:

The test results are shown in Appendix A.

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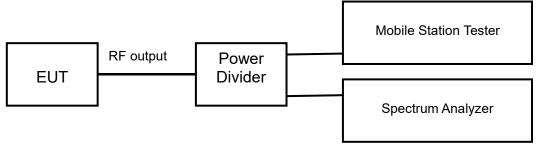
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#### 6.4 Emission Bandwidth

Rule Part(s): FCC: 2.1049

#### Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 4.2

#### **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 26dB occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within 1-5% of the emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

#### Test result:

The test results are shown in Appendix A.

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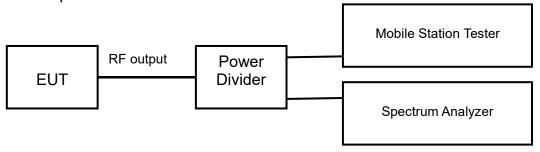


#### 6.5 Spurious Emissions at antenna terminal

Rule Part(s):

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(h)

#### Test Setup:



#### Test procedure:

KDB 971168 D01 v03r01 - Section 6.0

#### **Test Settings**

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz for Cell, 20GHz for PCS
- 2. RBW=100 kHz (For below 1GHz), 1MHz (For above 1GHz)
- 3. VBW  $\geq$  3 x RBW
- 4. Detector = RMS
- 5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### Limits:

The minimum permissible attenuation level of any spurious emission is  $43+log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

#### Test result:

The test results are shown in Appendix A.

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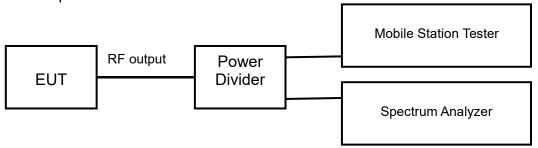


#### 6.6 Band Edges Compliance

Rule Part(s)

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(c)

#### Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 6.0

#### **Test Settings**

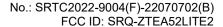
- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span=2MHz
- 3. RBW > 1% of the emission bandwidth
- $4. VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Limit: The minimum permissible attenuation level of any spurious emission is 43+log<sub>10</sub> (P [Watts]), where P is the transmitter power in Watts.

#### Test result:

The test results are shown in Appendix A.

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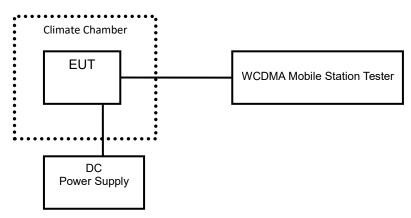


#### 6.7 Frequency Stability

Rule Part(s)

FCC: 2.1055, 22.355, 24.235, 27.54

#### Test setup:



Test Procedure: ANSI/TIA-603-E-2016

#### **Test Settings**

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C (The temperature range can be declared by the manufacturer). A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

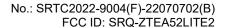
Limits: For Part 22, the frequency stability of the transmitter shall be maintained within±0.00025% (±2.5 ppm) of the center frequency. For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### Test result:

The test results are shown in Appendix A.

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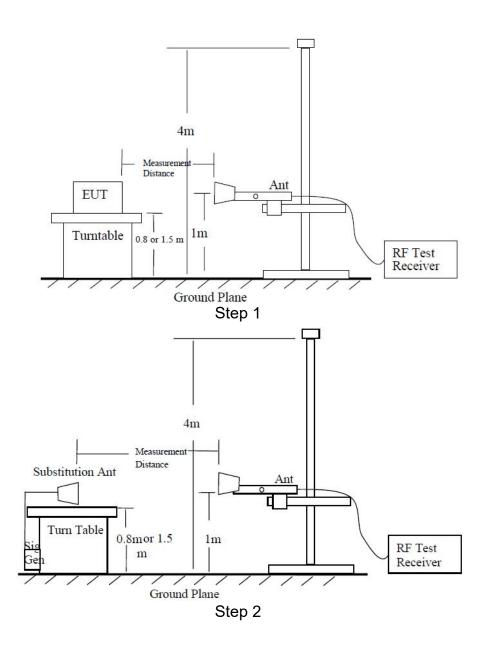


#### 6.8 Radiated Spurious Emissions

Rule Part(s)

FCC: 2.1053, 22.917(a), 24.238(a), 27.53(h)

#### Test Setup:



#### Test procedure:

The measurements procedures in TIA-603-E-2016 are used.

The spectrum was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment.

#### Step 1:

The measurement is carried out in the chamber. EUT was placed on a 0.8m (f<1GHz)/ 1.5m (f>1GHz) high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna from 1m to 4m and varies in certain range to find the maximum

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power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 100 kHz (f<1GHz)/1MHz (f>1GHz). The antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 10th harmonic of the carrier. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

#### Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

A power (Pmea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (Pmea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

Calculation procedure:

The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:

Power (EIRP) = Pmea+ Pca + Ga

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP - 2.15 (dB).

Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.

P=Pmea+Pca+Ga=(-20dBm)+(-30dB)+(11dB)=-39dBm

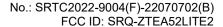
Note: We tested both horizontal and vertical polarization, but only the largest numerical polarity of the two polarities was recorded in the final report.

#### Test result:

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The test results are shown in Appendix B.

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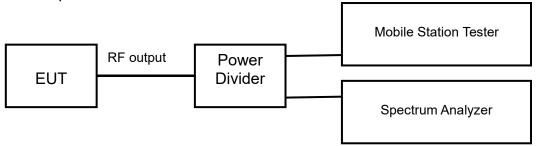


#### 6.9 Peak-Average Ratio

Rule Part(s)

FCC: 24.232(d), 27.50(d) (5)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 5.7.1

#### Test settings:

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Limits: the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test result:

The test results are shown in Appendix A

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## **7 MEASUREMENT UNCERTAINTIES**

Items	Uncertainty	
RF Power Output	0.6 dB	
Effective Radiated Power and Effective Isotropic Radiated Power	0.6	dB
Occupied Bandwidth	3k	Hz
Emission Bandwidth	3k	Hz
Peak-Average Ratio	0.8	BdB
Frequency Stability	48Hz	
Band Edges Compliance	1.2dB	
	9kHz~2GHz	1.2dB
Spurious Emissions at antenna	2G~3.6GHz	1.4dB
terminal	3.6G~8GHz	2.2dB
	8G~12.75GHz	2.7dB
	30MHz∼200MHz	4.88dB
Dadiated Emission Magaurement	200MHz~1GHz	4.87dB
Radiated Emission Measurement	1GHz∼18GHz	4.58dB
	18GHz~40GHz	4.35dB

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### **8 TEST EQUIPMENTS**

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	Mobile Station Tester / MT8820C	Anritsu	6201300660	2022.06.21	2023.06.20
2	Radio Communication Station / CMW500	R&S	161702	2022.06.21	2023.06.20
3	Spectrum Analyzer / FSV40	R&S	101065	2022.06.21	2023.06.20
4	Spectrum Analyzer / N9020A	Agilent	MY48010771	2022.05.18	2023.05.17
5	Power Divider / 11667A	HP	19632	2022.06.21	2023.06.20
6	DC Power Supply / E3645A	Agilent	MY40000741	2022.04.22	2023.04.21
7	Temperature chamber / SH241	ESPEC	92013758	2022.06.21	2023.06.20
8	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA			
9	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA			
10	Turn table Diameter:1m	FRANKONIA			
11	Turn table Diameter:5m	FRANKONIA			
12	Antenna master FAC(MA4.0)	MATURO			
13	Antenna master SAC(MA4.0)	MATURO			
14	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA			
15	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2022.06.21	2023.06.20
16	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2022.06.21	2023.06.20
17	Ultra log antenna / HL562	R&S	100016	2022.06.21	2023.06.20
18	Receive antenna /3160-09	SCHWARZ- BECK	002058-002	2022.06.21	2023.06.20
19	EMI test receiver / ESI 40	R&S	100015	2022.06.21	2023.06.20
20	EMI test receiver / ESCS30	R&S	100029	2022.06.21	2023.06.20
21	Receive antenna / HL562	R&S	100167	2022.06.21	2023.06.20
22	AMN / ENV216	R&S	3560.6550.12	2022.06.21	2023.06.20



### APPENDIX A - TEST DATA OF CONDUCTED EMISSION

#### 1. RF Power Output

WCDMA band II

Mo	ode	Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	23.05
Release 99	RMC,12.2kbps	1880	9400	23.07
Release 99	RMC,12.2kbps	1907.6	9538	23.27

Мо	ode	Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	1852.4	9262	22.89
HSDPA	Subtest1	1880	9400	22.82
HSDPA	Subtest1	1907.6	9538	22.90
HSDPA	Subtest2	1852.4	9262	22.54
HSDPA	Subtest2	1880	9400	22.47
HSDPA	Subtest2	1907.6	9538	22.52
HSDPA	Subtest3	1852.4	9262	22.82
HSDPA	Subtest3	1880	9400	22.74
HSDPA	Subtest3	1907.6	9538	22.80
HSDPA	Subtest4	1852.4	9262	22.48
HSDPA	Subtest4	1880	9400	22.39
HSDPA	Subtest4	1907.6	9538	22.46

Mo	ode	Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	1852.4	9262	22.89
HSUPA	Subtest1	1880	9400	22.83
HSUPA	Subtest1	1907.6	9538	22.91
HSUPA	Subtest2	1852.4	9262	22.86
HSUPA	Subtest2	1880	9400	22.85
HSUPA	Subtest2	1907.6	9538	22.91
HSUPA	Subtest3	1852.4	9262	22.93
HSUPA	Subtest3	1880	9400	22.85
HSUPA	Subtest3	1907.6	9538	22.91
HSUPA	Subtest4	1852.4	9262	22.93
HSUPA	Subtest4	1880	9400	22.84
HSUPA	Subtest4	1907.6	9538	22.91
HSUPA	Subtest5	1852.4	9262	22.93
HSUPA	Subtest5	1880	9400	22.83
HSUPA	Subtest5	1907.6	9538	22.89

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Mo	ode	Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSPA+	QPSK	1852.4	9262	22.89
HSPA+	QPSK	1880	9400	22.81
HSPA+	QPSK	1907.6	9538	22.89
HSPA+	16QAM	1852.4	9262	22.88
HSPA+	16QAM	1880	9400	22.82
HSPA+	16QAM	1907.6	9538	22.88

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1852.4	9262	22.9
DC-HSDPA	Subtest1	1880	9400	22.81
DC-HSDPA	Subtest1	1907.6	9538	22.89
DC-HSDPA	Subtest2	1852.4	9262	22.89
DC-HSDPA	Subtest2	1880	9400	22.82
DC-HSDPA	Subtest2	1907.6	9538	22.89
DC-HSDPA	Subtest3	1852.4	9262	22.89
DC-HSDPA	Subtest3	1880	9400	22.83
DC-HSDPA	Subtest3	1907.6	9538	22.88
DC-HSDPA	Subtest4	1852.4	9262	22.89
DC-HSDPA	Subtest4	1880	9400	22.83
DC-HSDPA	Subtest4	1907.6	9538	22.88

## 2. Occupied Bandwidth WCDMA band II

WCDIVIA Dallu II			
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	1852.4	9262	4.14
Release 99	1880	9400	4.14
Release 99	1907.6	9538	4.17

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	1852.4	9262	4.14
HSDPA	1880	9400	4.14
HSDPA	1907.6	9538	4.15

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	1852.4	9262	4.14
HSUPA	1880	9400	4.14
HSUPA	1907.6	9538	4.14

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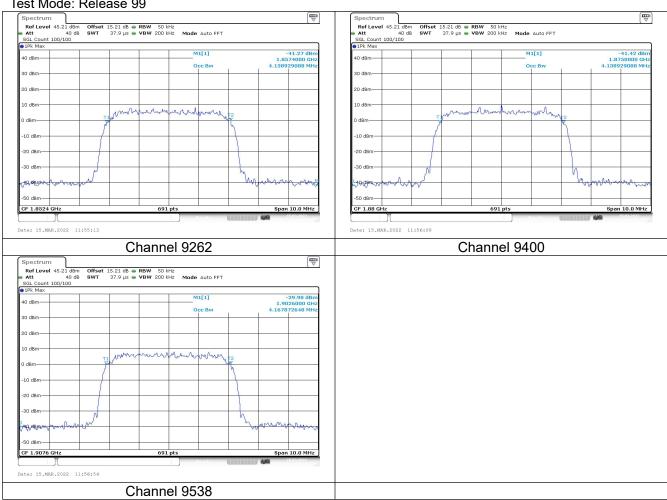


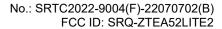
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Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSPA+	1852.4	9262	4.14
HSPA+	1880	9400	4.14
HSPA+	1907.6	9538	4.14

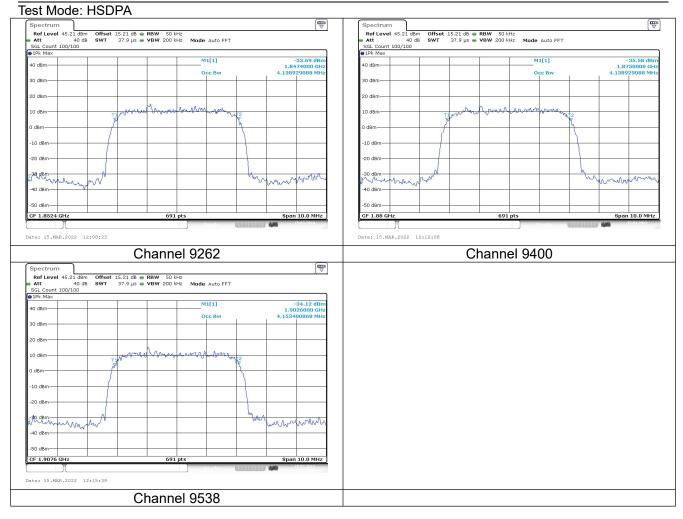
#### WCDMA band II Test Mode: Release 99



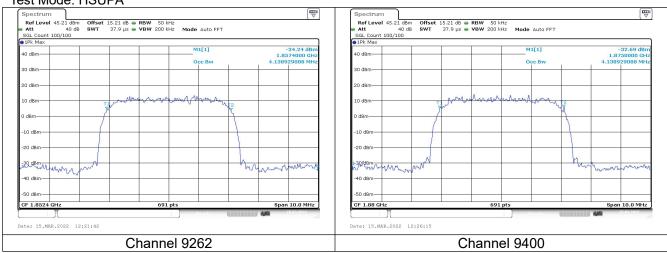


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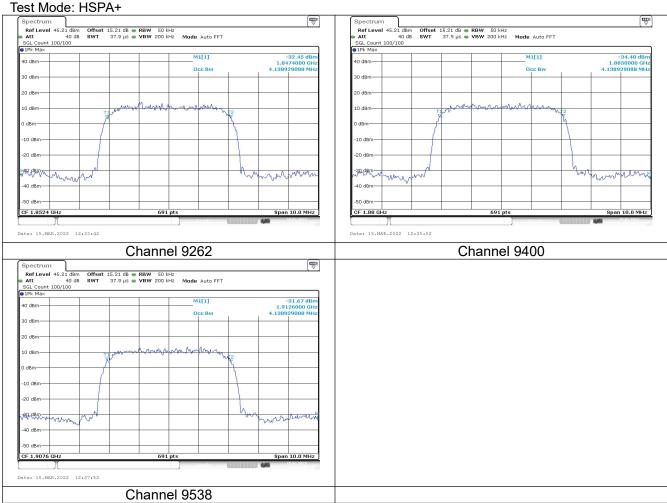




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#### 3. Emission Bandwidth

#### WCDMA band II

TTODIVI TOURIGHT			
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	1852.4	9262	4.63
Release 99	1880	9400	4.65
Release 99	1907.6	9538	4.65

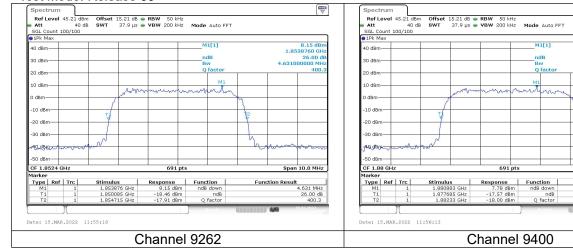
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	1852.4	9262	4.66
HSDPA	1880	9400	4.63
HSDPA	1907.6	9538	4.65

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	1852.4	9262	4.63
HSUPA	1880	9400	4.63
HSUPA	1907.6	9538	4.63

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSPA+	1852.4	9262	4.63
HSPA+	1880	9400	4.62
HSPA+	1907.6	9538	4.65

#### WCDMA band II

#### Test Mode: Release 99



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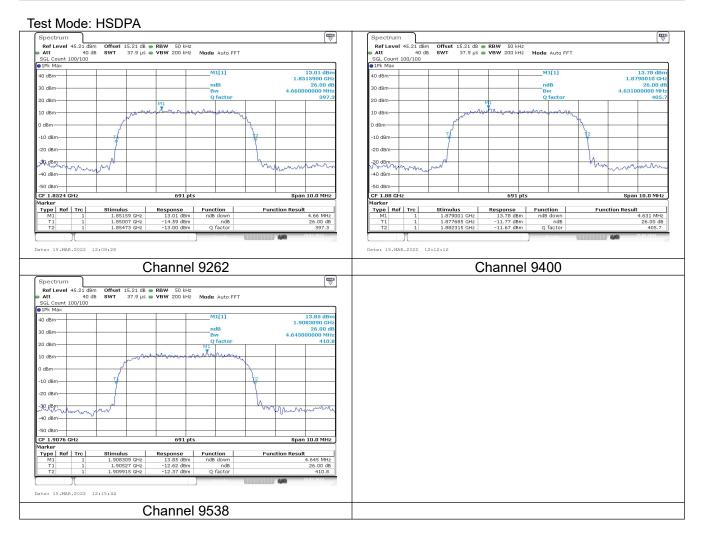
Function Result

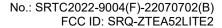
4.645 MHz
26.00 dB
404.9

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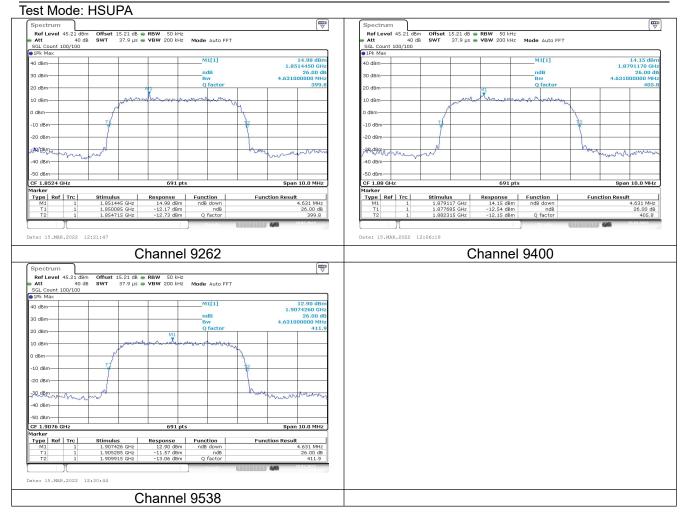




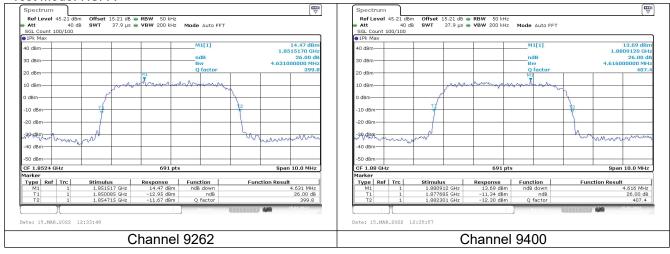


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#### Test Mode: HSPA+



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