



TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2018-9004(F)-18111202(B)

Product Name: Mobile Phone

Product Model: KS605

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 24E, Part 22H, Part 2, Part 27 (2018)

FCC ID: 2ADOBKS605

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 test results relate only to individual items of the samples which have been tested.

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		
Tel:	+86 10 57996183		
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Email:	liujiaf@srtc.org.cn		

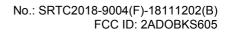
1.3 Applicant's details

Company:	Hisense International Co., Ltd.
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, China
City:	Qingdao
Country or Region:	China
Contacted person:	Geng Ruifeng
Tel:	+86-532-80877742
Fax:	
Email:	gengruifeng@hisense.com

1.4 Manufacturer's details

Company:	Hisense Communications Co., Ltd.		
Address:	218 Qianwangang Road, Qingdao Economic & Technological Development		
	Zone, Qingdao, China		
City:	Qingdao		
Country or Region:	China		
Contacted person:	Dai Qingtao		
Tel:	+86-532-55753749		
Fax:			
Email:	daiqingtao@hisense.com		

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1.5 Test Environment

Date of Receipt of test sample at SRTC:	2018-11-12
Testing Start Date:	2018-11-12
Testing End Date:	2018-12-11

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	30
Maximum Extreme	55	
Minimum Extreme	-10	

Normal Supply Voltage (V d.c.):	3.80
Maximum Extreme Supply Voltage (V d.c.):	4.35
Minimum Extreme Supply Voltage (V d.c.):	3.50



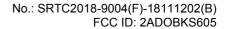
2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1Final Equipment Build Status

Frequency Range	WCDMA Band II: Tx:1852.4~1907.6MHz Rx:1932.4~1987.6MHz WCDMA Band V: Tx:826.4~846.6MHz Rx:871.4~891.6MHz	
Rated Output Power	WCDMA Band II:24.0dBm WCDMA Band V:24.0dBm	
Modulation Type	QPSK	
Emission Designator	4M50F9W	
Duplex Mode	FDD	
Duplex Spacing	WCDMA Band II:80MHz WCDMA Band V:45MHz	
Antenna Type	Fixed Internal Antenna	
Power Supply	Battery/AC adapter	
HW Version	V1.00	
SW Version	Hisense_U605_01_S02_20181102	
IMEI	866747040002841	

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2.2 Support Equipment

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

	The following capport equipment was assa to exclude the Bot adming testing.		
Equipment	Charger		
Manufacturer	SHENZHEN TIANYIN ELECTRONICS CO.,LTD		
Model Number	TPA-97050070UU		
Serial Number			

Equipment	Battery	
Manufacturer	Shenzhen Utility Power Source Co.,Ltd	
Model Number	LIW38150A	
Serial Number		

The products are different on the supplier of TP/LCM/Memory/Camera. The Second Supply worst case test result pleases refer to the Annex B.

2.3 Summary table.

FCC Rule Part	Frequency Range(MHz)	Conducted (Average)(dBm)	Antenna Gain	ERP/ EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
22H	826.4-846.6	23.10	0.80	0.150	0.017	4M17F9W
24E	1852.4-1907.6	22.18	1.60	0.239	0.015	4M17F9W

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3 REFERENCE SPECIFICATION

Specification	Version	Title	
2.1046	2018	Measurements required: RF power output.	
2.1049	2018	Measurements required: Occupied bandwidth.	
2.1051	2018	Measurements required: Spurious emissions at antenna	
		terminals.	
2.1053	2018	Measurements required: Field strength of spurious radiation.	
2.1055	2018	Measurements required: Frequency stability.	
22.355	2018	Frequency tolerance.	
22.913	2018	Effective radiated power limits.	
22.917	2018	Emission limitations for cellular equipment.	
24.232	2018	Power and antenna height limits.	
24.235/27.54	2018	Frequency stability.	
24.238	2018	Emission limitations for Broadband PCS equipment.	
27.50	2018	Power limits and duty cycle.	
27.53	2018	Emission limits.	
ANSI C63.26	2015	American National Standard for Compliance Testing of Transmitters	
ANSI C03.20	2013	Used in Licensed Radio Services	
KDB 971168	April 9,	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL	
D01	2018	TRANSMITTERS	

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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.
N/T	Test case is not tested.
NTC	Nominal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	high voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature

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5 RESULT SUMMARY

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

This Test Report Is Issued by:	Checked by:
Mr. Peng Zhen	Mr. Li Bin
数据	(A) 7RK)
Tested by:	Issued date:
Mr. He Dengshun	20181211

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6 TEST RESULT

6.1 RF Power Output-FCC Part 22.913(a)/Part24.232(b)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:

FUT	RF output	WCDMA Mobile Station Tester
EUI		Woblen Charlett Foods

WCDMA band II

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 No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band II)

=2 TdB111

WCDMA band V

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 No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits	≤24dBm



WCDMA band IV

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 No1312, No1412 and No1513 (Bottom, middle and top channels of WCDMA band IV)

Limits	≤24dBm
Limits	≤24dBm

Test result:

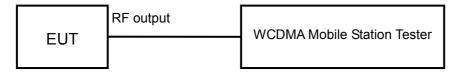
The test results are shown in Appendix A.

6.2 Effective Isotropic Radiated Power-FCC 22.913(a)/24.232(b) /27.50(d)(4)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



WCDMA band II

Test procedure:

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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.

Power (EIRP) = Pmea + Ga

The measurement will be done at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band II).

Limits	≤33.0dBm

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WCDMA band V

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. Power (EIRP) = Pmea + 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).

The measurement will be done at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits	≤38.5dBm

WCDMA band IV

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. Power (EIRP) = Pmea + Ga

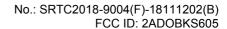
The measurement will be done at three channels No1312, No1412 and No1513 (Bottom, middle and top channels of WCDMA band IV).

Limits ≤30.0dBm

Test result:

The test results are shown in Appendix A.

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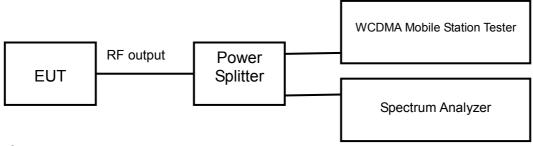


6.3 Occupied Bandwidth-FCC 2.1049/ 27.53(h)(1)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



WCDMA band II

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. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 51kHz on spectrum analyzer. The bandwidth of 99% power can be read on spectrum analyzer.

The measurement will be conducted at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band II)

Limits: No specific occupied bandwidth requirements in part 2.1049

WCDMA band V

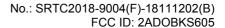
Test procedure:

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. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of 99% power can be read on spectrum analyzer.

The measurement will be conducted at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits: No specific occupied bandwidth requirements in part 2.1049

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WCDMA band IV

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. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 51kHz on spectrum analyzer. The bandwidth of 99% power can be read on spectrum analyzer.

The measurement will be conducted at three channels No1312, No1412 and No1513 (Bottom, middle and top channels of WCDMA band IV)

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

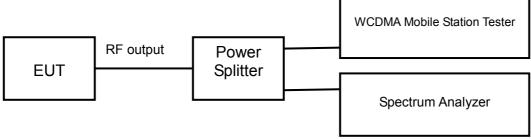
The test results are shown in Appendix A.

6.4 Emission Bandwidth-FCC 22.917(b)/24.238(b)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



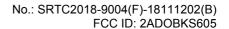
WCDMA band II

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. The emission bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of -26dBc power can be read on spectrum analyzer.

The measurement will be conducted at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band II)

Limits: No specific emission bandwidth requirements in part 24.238(b)





WCDMA band V

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. The emission bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of -26dBc power can be read on spectrum analyzer.

The measurement will be conducted at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band V)

Limits: No specific emission bandwidth requirements in part 22.917(b)

WCDMA band IV

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. The emission bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of -26dBc power can be read on spectrum analyzer.

The measurement will be conducted at three channels No1312, No1412 and No1513 (Bottom, middle and top channels of WCDMA band IV)

Limits: No specific emission bandwidth requirements in part 24.238(b)

Test result:

The test results are shown in Appendix A.

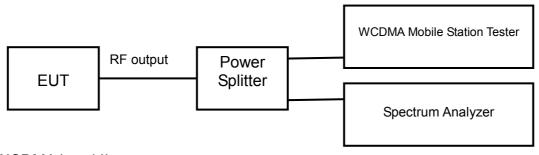


6.5 Spurious Emissions at antenna terminal-FCC 2.1051/ 22.917(a)/24.238(a)/ 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



WCDMA band II

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. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

The measurement will be conducted at one channel No9400 (middle channel of WCDMA band II)

Limits	≤-13dBm
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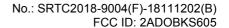
WCDMA band V

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. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to 9GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

The measurement will be conducted at one channel No4183 (middle channel of WCDMA band V)

Limits	≤-13dBm
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WCDMA band IV

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. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

The measurement will be conducted at one channel No1412 (middle channel of WCDMA band IV)

/	
Limits	≤-13dBm

Test result:

The test results are shown in Appendix A.

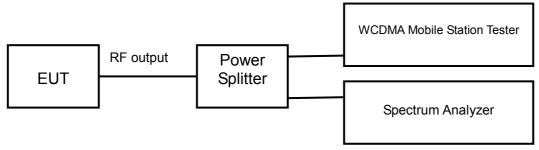


6.6 Band Edges Compliance-FCC 22.917(b)/24.238(b)/ 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



WCDMA band II

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. The measurement is carried out using a spectrum analyzer. The peak detector is used and RBW is set to at least 1% of the emission bandwidth on spectrum analyzer.

The measurement will be conducted at two channels No9262 and No9538 (Bottom and top channels of WCDMA band II)

Limits	≤-13dBm
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WCDMA band V

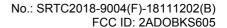
Test procedure:

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. The measurement is carried out using a spectrum analyzer. The peak detector is used and RBW is set to at least 1% of the emission bandwidth on spectrum analyzer.

The measurement will be conducted at two channels No4132 and No4233 (Bottom and top channels of WCDMA band V)

Limits	≤-13dBm
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WCDMA band IV

Test procedure:

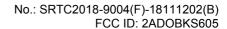
After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer. The peak detector is used and RBW is set to at least 1% of the emission bandwidth on spectrum analyzer.

The measurement will be conducted at two channels No1312 and No1513 (Bottom and top channels of WCDMA band IV)

Limits	≤-13dBm

Test result:

The test results are shown in Appendix A.



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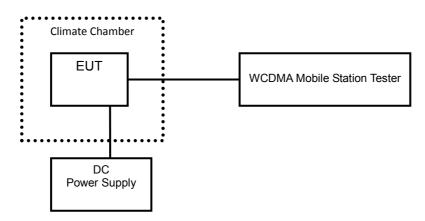


6.7 Frequency Stability-FCC 2.1055/22.355/24.235/27.54

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test setup:



WCDMA band II

Test Procedure:

A radio link shall be established between EUT and Tester. The tester will sample the transmitter RF output signal and measure its frequency. The temperature inside the climate chamber is varied from -30 to +50°C in 10°C step size, and also the DC power supply voltage to the EUT is varied from LV to HV. The measurement will be conducted at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band II).

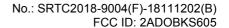
Limits: No specific frequency stability requirements in part 2.1055 and part 24.235.

WCDMA band V

Test Procedure:

A radio link shall be established between EUT and Tester. The tester will sample the transmitter RF output signal and measure its frequency. The temperature inside the climate chamber is varied from -30 to +50°C in 10°C step size, and also the DC power supply voltage to the EUT is varied from LV to HV. The measurement will be conducted at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V).

Limits: No specific frequency stability requirements in part 2.1055 and part 22.355.



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WCDMA band IV

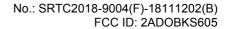
Test Procedure:

A radio link shall be established between EUT and Tester. The tester will sample the transmitter RF output signal and measure its frequency. The temperature inside the climate chamber is varied from -30 to +50°C in 10°C step size, and also the DC power supply voltage to the EUT is varied from LV to HV. The measurement will be conducted at three channels No1312, No1412 and No1513 (Bottom, middle and top channels of WCDMA band IV).

Limits: No specific frequency stability requirements in part 2.1055 and part 24.235.

Test result:

The test results are shown in Appendix A.



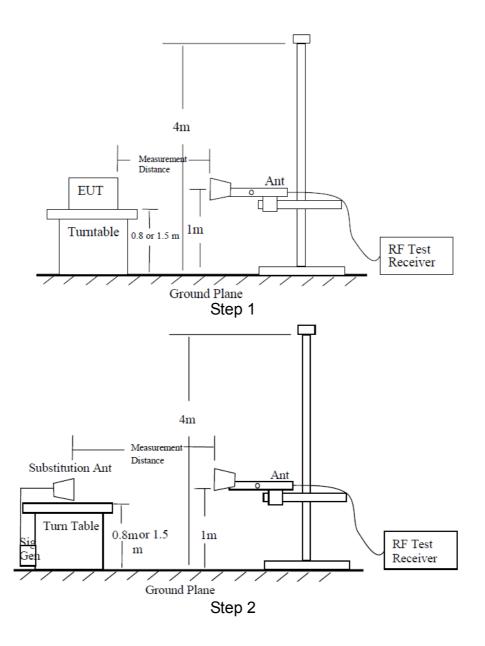


6.8 Radiated Spurious Emissions-FCC 2.1053/22.917(a)/24.238(a)/ 27.53(h), 27.53(g)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

Test Setup:



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WCDMA band II

Test procedure:

The measurements procedures in TIA-603C-2004 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 fully anechoic chamber. EUT was placed on a 2.4 meter high non-conductive table at a 3 meter 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 is 2.4m and varies in certain range to find the maximum 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. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. 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:

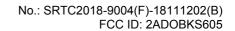
The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

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) = $P_{mea} + P_{ca} + G_a$

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. $P=P_{mea}+P_{ca}+G_{a}=(-20dBm)+(-30dB)+(11dB)=-39dBm$

The measurement will be done at carrier frequencies that pertain to bottom (Channel 9262), middle (Channel 9400) and top (Channel 9538) channels of WCDMA band II.

WCDMA band V

Test procedure:

The measurements procedures in TIA-603C-2004 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 fully anechoic chamber. EUT was placed on a 2.4 meter high non-conductive table at a 3 meter 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 is 2.4m and varies in certain range to find the maximum 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. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. 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

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.

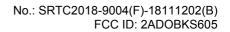
A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

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:

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Power(EIRP) = $P_{mea} + P_{ca} + G_a$

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.

 $P=P_{mea}+P_{ca}+G_{a}=(-20dBm)+(-30dB)+(11dB)=-39dBm$

The measurement will be done at carrier frequencies that pertain to bottom (Channel 4132), middle (Channel 4183) and top (Channel 4233) channels of WCDMA band V.

WCDMA band IV

Test procedure:

The measurements procedures in TIA-603C-2004 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 fully anechoic chamber. EUT was placed on a 2.4 meter high non-conductive table at a 3 meter 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 is 2.4m and varies in certain range to find the maximum 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. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. 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 Page number: 24 of 56

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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) = $P_{mea} + P_{ca} + G_a$

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.

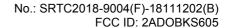
 $P=P_{mea}+P_{ca}+G_{a}=(-20dBm)+(-30dB)+(11dB)=-39dBm$

The measurement will be done at carrier frequencies that pertain to bottom (Channel 1312), middle (Channel 1412) and top (Channel 1513) channels of WCDMA band IV.

Test result:

The test results are shown in Appendix B.

The State Radio_monitoring_center Testing Center (SRTC)
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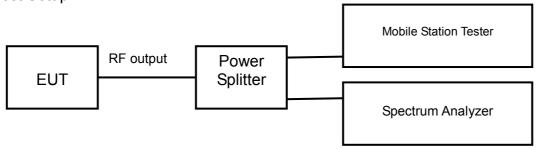


6.9 Peak-Average Ratio -FCC 24.232(d)/ 27.50(d)(5)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	30%	101.9kPa

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. The Peak-Average Ratio is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The Peak-Average Ratio can be read on spectrum analyzer.

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	U=0.6 dB	
Occupied Bandwidth	3kHz	
Spurious Emissions	9kHz~2GHz	U=1.2dB
	2G~3.6GHz	U=1.4dB
	3.6G~8GHz	U=2.2dB
	8G~12.75GHz	U=2.7dB
Band Edges Compliance	1.2dB	
Frequency Stability	U=48 Hz	

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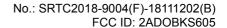


8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	E5515C(8960) Mobile Station Tester	Agilent	MY50266302	2018.8.20	2019.8.19
2	N9020A Spectrum Analyzer	Agilent	MY48010771	2018.8.20	2019.8.19
3	DC Power Supply E3645A	Agilent	MY40000741	2018.3.01	2019.2.28
5	Temperature chamber SH241	ESPEC	92013758	2018.8.20	2019.8.19
6	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA			
7	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA			
8	Turn table Diameter:1m	FRANKONIA			
9	Turn table Diameter:5m	FRANKONIA			
10	Antenna master FAC(MA4.0)	MATURO			
11	Antenna master SAC(MA4.0)	MATURO			
12	9.080m×5.255m×3.525m Shielding room	FRANKONIA			
13	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2018.08.20	2019.08.19
14	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100513	2018.08.20	2019.08.19
15	HL562 Ultra log antenna	R&S	100016	2018.08.20	2019.08.19
16	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2018.08.20	2019.08.19
17	ESI 40 EMI test receiver	R&S	100015	2018.08.20	2019.08.19
18	ESCS30 EMI test receiver	R&S	100029	2018.08.20	2019.08.19
19	HL562 Receive antenna	R&S	100167	2018.08.20	2019.08.19
20	ENV216 AMN	R&S	3560.6550.12	2018.08.20	2019.08.19

APPENDIX A – TEST DATA OF CONDUCTED EMISSION Please refer to the attachment.

<u>APPENDIX B – TEST DATA OF RADIATED EMISSION</u> Please refer to the attachment.





APPENDIX A - TEST DATA OF CONDUCTED EMISSION

RF Power Output-FCC Part 22.913(a)/Part24.232(b)

WCDMA band II Antenna Gain=1.6dBi

WCDMA Mode:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	EIRP (dBm)
1852.4	9262	21.86	23.46
1880.0	9400	22.18	23.78
1907.6	9538	22.02	23.62

HSDPA/HSUPA Mode:

Carrier frequency	Channel No.	RF Power Output	EIRP
(MHz)	Chamile No.	(dBm)	(dBm)
1852.4	9262	20.34	21.94
1880.0	9400	20.67	22.27
1907.6	9538	20.51	22.11

WCDMA band V Antenna Gain=0.8dBi WCDMA Mode:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP (dBm)
826.4	4132	22.79	21.44
836.6	4183	23.10	21.75
846.6	4233	22.62	21.27

HSDPA/HSUPA Mode:

Carrier frequency	Channel No.	RF Power Output	ERP
(MHz)	Charmer No.	(dBm)	(dBm)
826.4	4132	21.25	19.90
836.6	4183	21.60	20.25
846.6	4233	21.13	19.78

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Occupied Bandwidth-FCC 2.1049/ 27.53(h)(1)

WCDMA band II WCDMA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1458
1880.0	9400	4.1322
1907.6	9538	4.1436

HSDPA/HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1363
1880.0	9400	4.1453
1907.6	9538	4.1675

WCDMA band V WCDMA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1337
836.6	4183	4.1386
846.6	4233	4.1682

HSDPA/HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1635
836.6	4183	4.1461
846.6	4233	4.1561



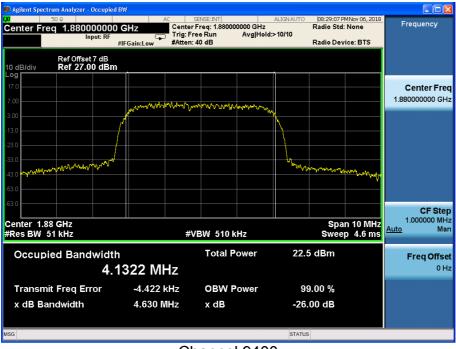


WCDMA band II

WCDMA Mode:



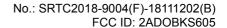
Channel 9262



Channel 9400

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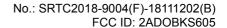
Channel 9538

HSDPA/HSUPA Mode:



Channel 9262

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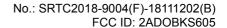
Channel 9400



Channel 9538

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WCDMA band V

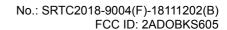
WCDMA Mode:



Channel 4132



Channel 4183

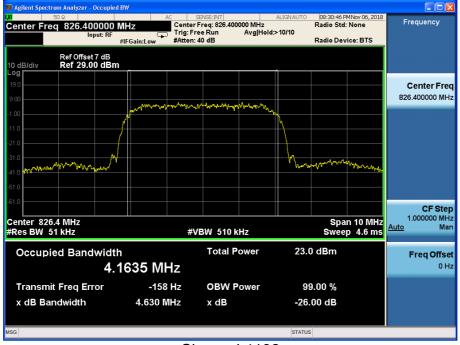






Channel 4233

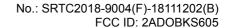
HSDPA/HSUPA Mode:



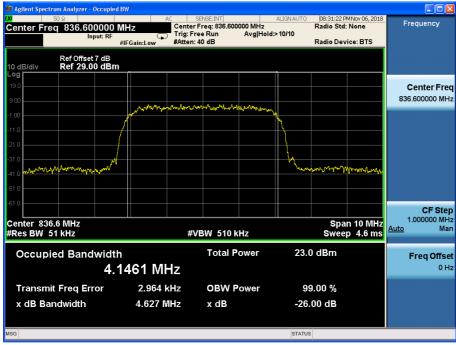
Channel 4132

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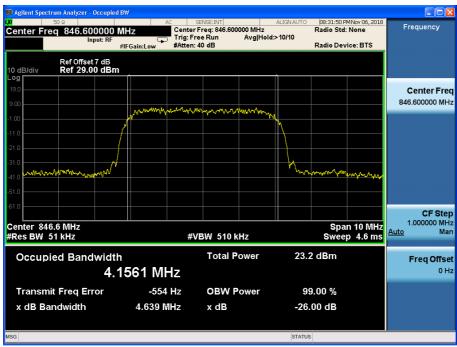
86-10-57996388 20170515V1.0.0







Channel 4183



Channel 4233

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Emission Bandwidth-FCC 22.917(b)/24.238(b)

WCDMA band II WCDMA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.654
1880.0	9400	4.630
1907.6	9538	4.664

HSDPA/HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.640
1880.0	9400	4.647
1907.6	9538	4.652

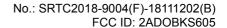
WCDMA band V WCDMA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.585
836.6	4183	4.642
846.6	4233	4.633

HSDPA/HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.630
836.6	4183	4.627
846.6	4233	4.639

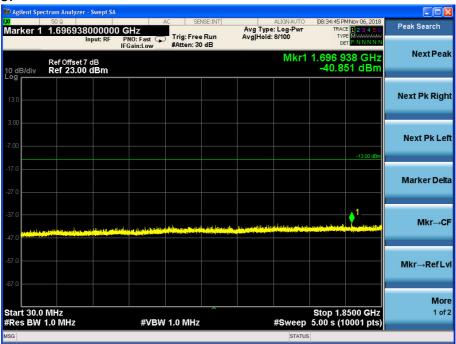
The State Radio_monitoring_center Testing Center (SRTC) Tel: 86-10-57996183



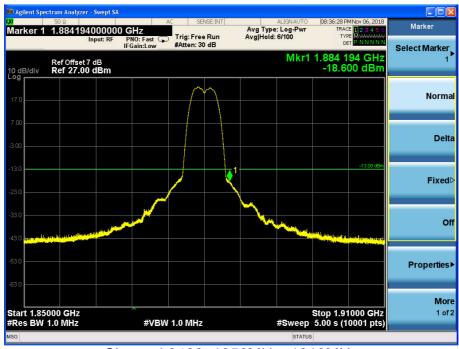


Spurious Emissions at antenna terminal-FCC Part2.1051/ 22.917(a)/24.238(a)/ 27.53(h) WCDMA band II

WCDMA Mode:

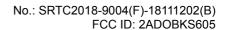


Channel 9400, 30MHz~1850MHz



Channel 9400, 1850MHz~1910MHz

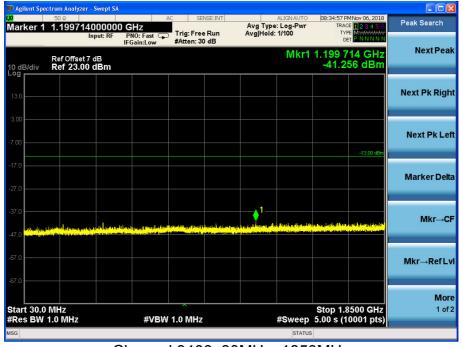
Note: The signal beyond the limit is the signal transmitted by EUT.





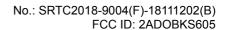


Channel 9400, 1910MHz~20GHz

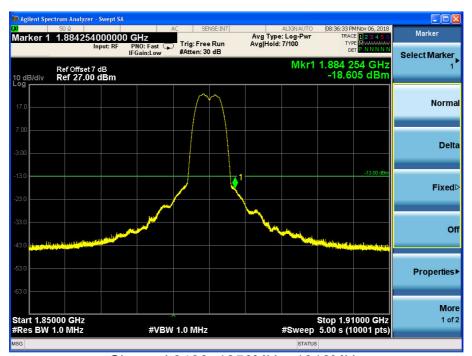


Channel 9400, 30MHz~1850MHz

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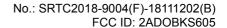
Channel 9400, 1850MHz~1910MHz

Note: The signal beyond the limit is the signal transmitted by EUT.



Channel 9400, 1910MHz~20GHz

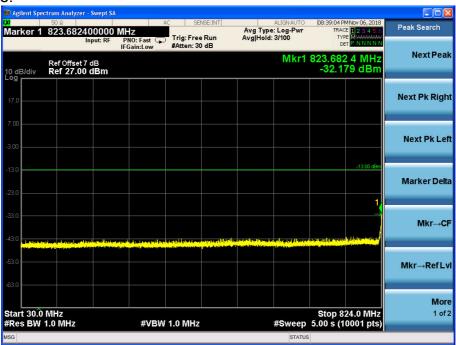
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WCDMA band V

WCDMA Mode:

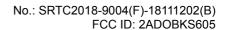


Channel 4183, 30MHz~824MHz



Channel 4183, 824MHz~849MHz

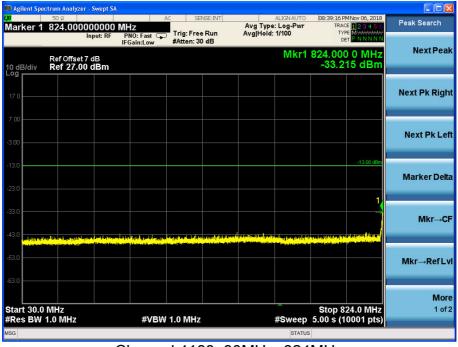
Note: The signal beyond the limit is the signal transmitted by EUT.





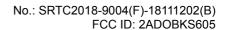


Channel 4183, 849MHz~9GHz



Channel 4183, 30MHz~824MHz

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Channel 4183, 824MHz~849MHz

Note: The signal beyond the limit is the signal transmitted by EUT.



Channel 4183, 849MHz~9GHz





Band Edges Compliance-FCC 22.917(b)/24.238(b)/ 27.53(h)

WCDMA band II

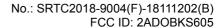
WCDMA Mode:



Channel 9262



Channel 9538







Channel 9262



Channel 9538

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WCDMA band V

WCDMA Mode:

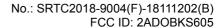


Channel 4132



Channel 4233

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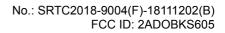


Channel 4132



Channel 4233

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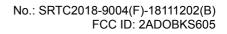
Frequency Stability-FCC Part2.1055/22.355/24.235/27.54

WCDMA band II WCDMA Mode:

Tomporatura(°C)	Test Result (ppm)@NV		
Temperature(°C)	Channel 9262	Channel 9400	Channel 9538
-10	0.008	0.002	0.013
0	0.001	0.012	0.014
+10	0.003	0.001	0.004
+20	0.011	0.002	0.003
+30	0.002	0.009	0.004
+40	0.002	0.005	0.002
+50	0.007	0.003	0.008
+55	0.004	0.004	0.015
Voltago	Test Result (ppm)@NT		
Voltage	Channel 9262	Channel 9400	Channel 9538
LV	0.002	0.003	0.004
HV	0.004	0.004	0.002

HSDPA/HSUPA Mode:

TIODI / VITICOI / VIVIOUC.	TODEAN SOLE IN CONTRACTOR OF THE SOLE IN CON		
Temperature(°C)		Test Result (ppm)@NV	
remperature(C)	Channel 9262	Channel 9400	Channel 9538
-10	0.002	0.012	0.003
0	0.004	0.003	0.004
+10	0.002	0.001	0.001
+20	0.003	0.004	0.005
+30	0.001	0.002	0.013
+40	0.008	0.012	0.002
+50	0.002	0.007	0.007
+55	0.003	0.002	0.003
Voltago		Test Result (ppm)NT	
Voltage	Channel 9262	Channel 9400	Channel 9538
LV	0.014	0.011	0.012
HV	0.006	0.013	0.008





WCDMA band V WCDMA Mode:

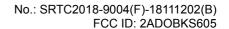
T (00)	Test Result (ppm)@NV		
Temperature(°C)	Channel 4132	Channel 4183	Channel 4233
-10	0.013	0.002	0.002
0	0.005	0.008	0.005
+10	0.007	0.002	0.015
+20	0.013	0.007	0.007
+30	0.002	0.002	0.002
+40	0.013	0.013	0.006
+50	0.006	0.003	0.004
+55	0.002	0.009	0.004

Voltago	Test Result (ppm)@NT		
Voltage	Channel 4132	Channel 4183	Channel 4233
LV	0.007	0.003	0.003
HV	0.004	0.006	0.002

HSDPA/HSUPA Mode:

Temperature(°C)		Test Result (ppm)@NV	
remperature(C)	Channel 4132	Channel 4183	Channel 4233
-10	0.018	0.003	0.002
0	0.017	0.003	0.013
+10	0.002	0.002	0.002
+20	0.012	0.013	0.005
+30	0.003	0.003	0.003
+40	0.003	0.008	0.011
+50	0.015	0.001	0.006
+55	0.007	0.002	0.004

Voltago	Test Result (ppm)@NT			
Voltage	Channel 4132 Channel 4183 Channel 4233			
LV	0.012	0.013	0.006	
HV	0.016	0.008	0.012	





Peak-Average Ratio -FCC Part 24.232(d)/ 27.50(d)(5)

WCDMA band II

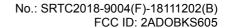
WCDMA Mode:



HSDPA/HSUPA Mode:



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WCDMA band V

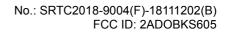
WCDMA Mode:



HSDPA/HSUPA Mode:



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APPENDIX B - TEST DATA OF RADIATED EMISSION

Main Supply Test Result WCDMA band II WCMDA Mode: Channel 9262

0.16.11.01.0202			
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.52	-49.25	-13	Vertical
2776.78	-48.04	-13	Vertical
3728.83	-40.92	-13	Vertical
6677.10	-39.99	-13	Vertical
9960.73	-37.65	-13	Vertical
17823.20	-34.20	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.89	-48.90	-13	Vertical
2778.44	-48.05	-13	Vertical
3729.45	-40.52	-13	Vertical
6679.56	-39.63	-13	Vertical
9962.76	-36.96	-13	Vertical
17822.64	-34.68	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.42	-49.02	-13	Vertical
2777.80	-47.36	-13	Vertical
3727.02	-40.63	-13	Vertical
6676.27	-40.30	-13	Vertical
9959.44	-37.44	-13	Vertical
17820.54	-34.40	-13	Vertical

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HSDPA/HSUPA Mode:

Channel 9262

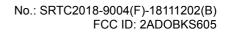
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.47	-48.84	-13	Vertical
2776.88	-47.83	-13	Vertical
3726.61	-40.68	-13	Vertical
6678.24	-39.96	-13	Vertical
9960.21	-37.47	-13	Vertical
17823.09	-34.55	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.23	-49.09	-13	Vertical
2777.29	-47.87	-13	Vertical
3728.97	-40.77	-13	Vertical
6677.39	-40.12	-13	Vertical
9961.94	-37.58	-13	Vertical
17820.99	-34.47	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.42	-49.24	-13	Vertical
2779.09	-47.97	-13	Vertical
3729.21	-41.00	-13	Vertical
6676.18	-40.02	-13	Vertical
9961.35	-37.49	-13	Vertical
17820.65	-34.67	-13	Vertical





WCDMA band V WCDMA Mode: Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.01	-52.25	-13	Vertical
1666.24	-51.26	-13	Vertical
2532.67	-43.87	-13	Vertical
2574.03	-43.43	-13	Vertical
8965.23	-39.73	-13	Vertical
9972.28	-36.22	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.26	-52.14	-13	Vertical
1667.23	-51.02	-13	Vertical
2536.07	-44.44	-13	Vertical
2577.19	-43.66	-13	Vertical
8964.84	-40.24	-13	Vertical
9970.70	-36.78	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.14	-52.22	-13	Vertical
1668.36	-51.41	-13	Vertical
2533.89	-44.40	-13	Vertical
2574.52	-43.90	-13	Vertical
8964.79	-40.05	-13	Vertical
9968.35	-36.76	-13	Vertical



Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.35	-52.74	-13	Vertical
1668.50	-50.95	-13	Vertical
2533.94	-44.13	-13	Vertical
2577.00	-43.64	-13	Horizontal
8963.28	-39.78	-13	Vertical
9971.71	-36.43	-13	Vertical

Channel 4183

<u> </u>			
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.55	-52.39	-13	Vertical
1665.85	-51.26	-13	Vertical
2534.26	-44.31	-13	Vertical
2575.05	-44.20	-13	Vertical
8961.79	-39.92	-13	Vertical
9968.59	-36.65	-13	Horizontal

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.71	-52.96	-13	Vertical
1667.57	-51.13	-13	Vertical
2535.33	-43.76	-13	Vertical
2576.34	-44.30	-13	Vertical
8961.52	-40.04	-13	Vertical
9970.49	-36.34	-13	Vertical

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Second Supply Worst Case Test Result WCDMA Mode:

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.51	-52.89	-13	Vertical
1665.45	-50.74	-13	Vertical
2535.41	-43.67	-13	Vertical
2574.17	-43.64	-13	Vertical
8963.90	-40.03	-13	Vertical
9968.42	-35.81	-13	Vertical

---End of Test Report---

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