

# TEST REPORT

**APPLICANT**: Nubia Technology Co., Ltd.

**PRODUCT NAME**: 5G Mobile Phone

MODEL NAME : NX709S

**BRAND NAME**: REDMAGIC

FCC ID : 2AHJO-NX709S

47 CFR Part 2

**STANDARD(S)** : 47 CFR Part 22 Subpart H

47 CFR Part 24 Subpart E

**RECEIPT DATE** : 2022-05-19

**TEST DATE** : 2022-05-23 to 2022-06-19

**ISSUE DATE** : 2022-07-06

Edited by:

Peng**⊀**⁄li (Rapporteur)

Approved by:

Shen Junsheng (Supervisor)

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Change History					
Version Date Reason for change					
1.0 2022-07-06		First edition			



## 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

Applicant:	Nubia Technology Co., Ltd.		
	Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan,		
Applicant Address:	No.3370, Liuxian Rd, Nanshan District, Shenzhen City,		
	Guangdong Province, P. R. China		
Manufacturer:	Nubia Technology Co., Ltd.		
	Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan,		
Manufacturer Address:	No.3370, Liuxian Rd, Nanshan District, Shenzhen City,		
	Guangdong Province, P. R. China		

## 1.2. Equipment Under Test (EUT) Description

Product Name:	5G Mobile Phone			
Sample No.:	6#			
Hardware Version:	NX709J_V1AMB			
Software Version:	NX709S_UNComm	non_V3.02		
Modulation Type:	CDMA2000 1xRTT	: BPSK,QPSK		
	CDMA 2000 BC0	Tx: 824MHz-849MHz		
Operating Fraguency Banger	CDIVIA 2000 BC0	Rx: 869MHz-894MHz		
Operating Frequency Range:	CDMA 2000 BC1	Tx: 1850MHz-1910MHz		
	CDMA 2000 BC1	Rx: 1930MHz-1990MHz		
Antenna Type:	Fixed Internal Antenna			
Antonio Oslino	CDMA 2000 BC0	-3.40dBi		
Antenna Gain:	CDMA 2000 BC1	-1.50dBi		
	Battery			
	Brand Name:	nubia		
	Model No.:	Li3923T89P8h636590		
Accessory Information	Serial No.:	N/A		
Accessory Information:	Capacity:	2380mAh		
	Rated Voltage:	7.78V		
	Charge Limit:	8.96V		
	Manufacturer:	Dongguan Amperex Technology Limited		





	AC Adapter		
	Brand Name:	nubia	
	Model No.:	STC-A59152050AC-Z	
	Serial No.:	N/A	
Accessory Information:	Rated Output:	5V=3A, 9V=3A, 15V=3A, 20V=3.25A	
Accessory information.		PPS: 5V-11V=5A, 5V-20V=3.25A	
	Rated Input:	100-240V~50/60Hz, 1.5A	
	Manufacturer:	ShenZhen KunXing Technology Co., Ltd.	
	USB Cable		
	Model No.:	N52111200016D	

**Note 1:** SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.

**Note 2:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

Test Mode	Maximum E.R.P./E.I.R.P. (W)	Emission Designator
CDMA2000 BC0	0.042	1M28F9W
CDMA2000 BC1	0.105	1M28F9W

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#### 1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part24 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters;
'	47 CFR Part 2 (10-1-12 Edition)	General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination/ Remark
1	2.1046	Conducted RF Output Power	May 31, 2022	Tan Xiaowei	PASS	No deviation
2	24.232(d)	Peak -Average Ratio	May 31, 2022	Li Huaijie	PASS	No deviation
3	2.1049	Occupied Bandwidth	May 31, 2022	Li Huaijie	PASS	No deviation
4	2.1055, 22.355, 24.235	Frequency Stability	Jun. 15, 2022	Li Huaijie	PASS	No deviation
5	2.1051, 22.917(a), 24.238(a)	Conducted Out of Band Emissions	May 31, 2022	Li Huaijie	PASS	No deviation
6	2.1051, 22.917(a), 24.238(a)	Band Edge	May 31, 2022	Li Huaijie	PASS	No deviation
7	22.913(a) 24.232(c)	Transmitter Radiated Power (EIPR/E.R.P.)	Jun. 15, 2022	Li Huaijie	PASS	No deviation
8	2.1053, 22.917(a), 24.238(a)	Radiated Out of Band Emissions	Jun. 19, 2022	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03r01 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in



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the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

**Note 3:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 4:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

#### 1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106





## 2.47 CFR Part 2, Part 22H, Part24E Requirements

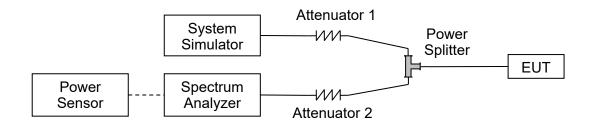
## 2.1. Conducted RF Output Power

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



#### 2.1.3. Test Result

CDMA2000 BC0	Average Power (dBm)		
TX Channel	1013 384		777
Frequency (MHz)	824.7	836.52	848.31
1xRTT RC1 SO55	21.66	21.59	21.52
1xRTT RC3 SO55	21.69	21.61	21.68
1xRTT RC3 SO32 (F+SCH)	21.75	21.58	21.67
1xRTT RC3 SO32 (+SCH)	21.63	21.51	21.57

CDMA2000 BC1	Average Power (dBm)		
TX Channel	25	25 600	
Frequency (MHz)	1851.25	1880	1908.75
1xRTT RC1 SO55	21.39	21.47	21.51
1xRTT RC3 SO55	21.59	21.55	21.54
1xRTT RC3 SO32 (F+SCH)	21.60	21.73	21.67
1xRTT RC3 SO32 (+SCH)	21.58	21.63	21.52

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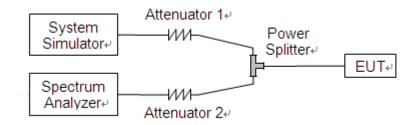
### 2.2. Peak to Average Ratio

#### 2.2.1. Requirement

According to FCC 24.232(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### 2.2.2. Test Description

#### Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

#### 2.2.3. Test Procedure

- 1 .For GSM/EDGE operating mode:
- a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- b. Set EUT in maximum output power, and triggered the bust signal.

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- c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
- 2. For UMTS operating mode:
- a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.





#### 2.2.4. Test Result

	CDMA2000 BC1						
Mode	Limit (dB)	Verdict					
	25	1851.25	3.79		PASS		
1xRTT	600	1880.00	3.75	13	PASS		
	1175	1908.75	3.67		PASS		

#### CDMA BC1 (1xRTT), CH25, 1851.25MHz CDMA BC1 (1xRTT), CH600, 1880.00MHz Center Freq 1.851250000 GHz Average Power Average Power Center Free 1.851250000 GH Center Freq 16.37 dBm 16.58 dBm 50.18 % at 0dB 10 % 50.19 % at 0dB 10 % 10.0 % 1.86 dB 10.0 % 1.86 dB 0.1 % 0.1 % 1.0 % 3.18 dB CF Step 5.000000 MH Ma 1.0 % 3.17 dB 0.1 % 3.75 dB 3.79 dB 0.1 % 0.01 % 0.01 % 0.01 % 3.93 dB 0.01 % 3.86 dB 0.001 % 3.98 dB 0.001 % 3.91 dB Freq Offse Freq Offse 0.0001 % 4.02 dB 0.001 % 0.0001 % 3.95 dB 0.001 % 4.06 dB 20.43 dBm 3.96 dB 20.54 dBm 0.0001 % 0.0001 % 0 dB Info BW 3.0000 MHz 0 dB Info BW 3.0000 MHz CDMA BC1 (1xRTT), CH1175, 1908.75MHz Center Freq 1.908750000 GHz Center Free Run Counts 2.20 M/10.0 Mpt Average Power Center Freq 16.50 dBm 50.47 % at 0dB 10 % 10.0 % 1.83 dB 0.1 % 3.10 dB 1.0 % 0.1 % 3.67 dB 0.01 % 0.01 % 3.78 dB 0.001 % 3.83 dB Freq Offse 0.0001 % 3.88 dB 0.001 % 3,88 dB 20,38 dBm 0.0001 % 0 dB Info BW 3.0000 MHz





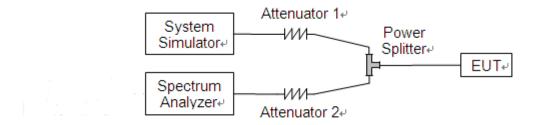
## 2.3. Occupied Bandwidth

#### 2.3.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

#### 2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

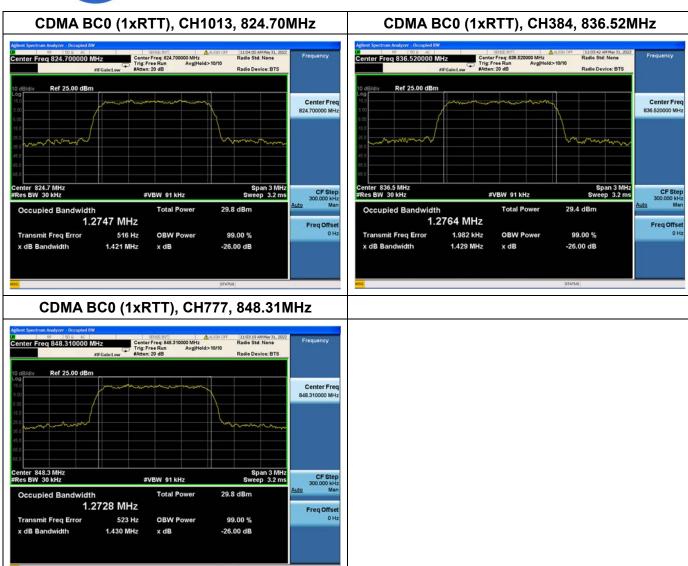


#### 2.3.3. Test Result

CDMA2000 BC0							
Mode Channel Frequency (MHz) 99% Occupied Bandwidth (MHz) 26dB Bandwidth (MHz)							
	1013	824.70	1.27	1.42			
1xRTT	384	836.52	1.28	1.43			
	777	848.31	1.27	1.43			

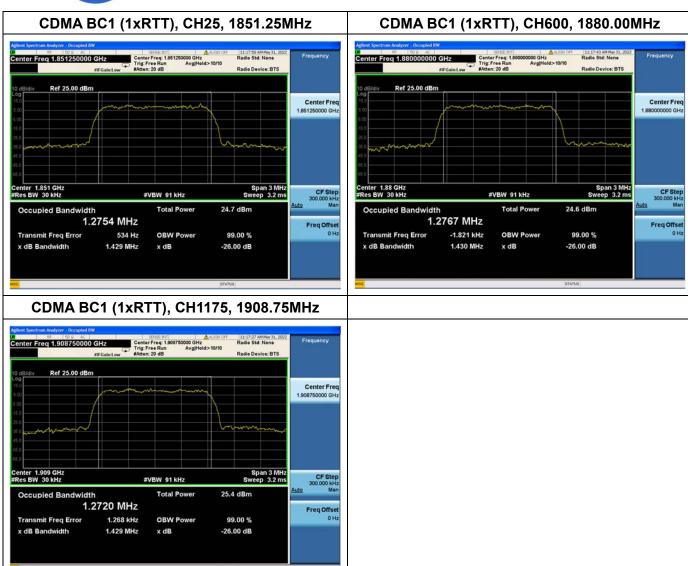
CDMA2000 BC1							
Mode Channel Frequency (MHz) 99% Occupied Bandwidth (MHz) 26dB Bandwidth (MHz)							
	25	1851.25	1.28	1.43			
1xRTT	600	1880.00	1.28	1.43			
	1175	1908.75	1.27	1.43			















## 2.4. Frequency Stability

#### 2.4.1. Requirement

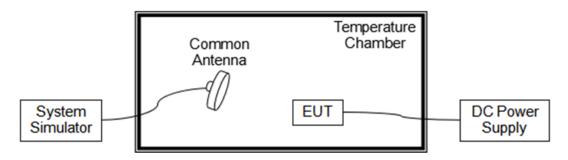
According to FCC section 22.355 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from-30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

**Note:** The operating temperature of EUT is from 0°C to 40°C, which are specified by the applicant.

#### 2.4.2. Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.



#### 2.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 7.78V, 8.96V and 6.30V, which are specified by the applicant; the normal temperature here used is 20°C.

	CDMA20	000 BC0 (1xR	TT), CH384, 836.5	2MHz				
	Limit =±2.5ppm							
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result			
Normal	7.70	+20(Ref)	-15	-0.018				
Normal		0	15	0.018				
Normal		+10	29	0.035				
Normal	7.78	+20	-37	-0.044	PASS			
Normal		+30	57	0.068	PASS			
Normal		+40	-17	-0.020				
High	8.96	+20	20	0.024				
BATT.ENDPOINT	6.30	+20	24	0.029				

CDMA2000 BC1 (1xRTT), Channel 600, Frequency 1880.00MHz  Limit =Within Authorized Band						
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result	
Normal		+20(Ref)	42	0.022		
Normal		0	-51	-0.027		
Normal		+10	32	0.017		
Normal	7.78	+20	49	0.026	PASS	
Normal		+30	-44	-0.023	PASS	
Normal	8.96	+40	-21	-0.011		
High		+20	22	0.012		
BATT.ENDPOINT	6.30	+20	-53	-0.028		



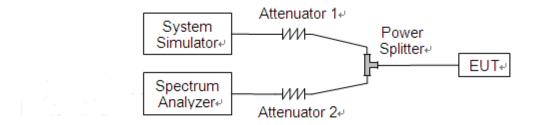
#### 2.5. Conducted Out of Band Emissions

#### 2.5.1. Requirement

According to FCC section 22.917(a) and 24.238(a) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P)dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

#### 2.5.2. Test Description

Test Setup:



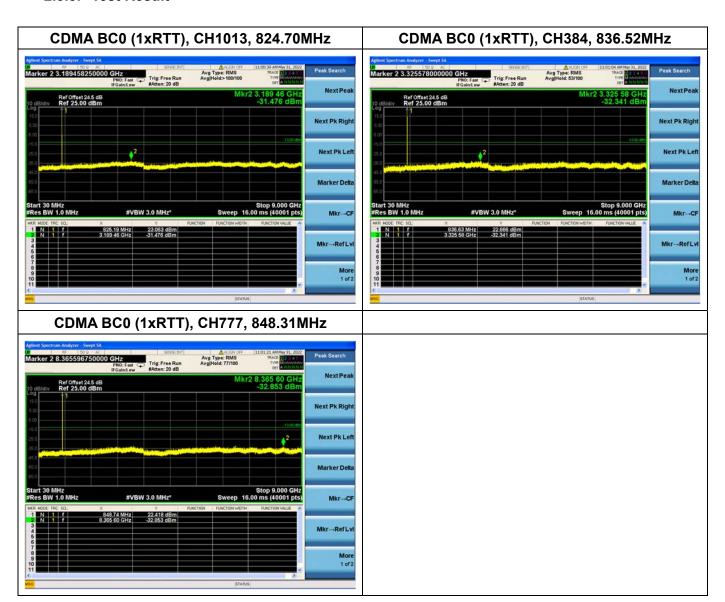
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



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#### 2.5.3. Test Result

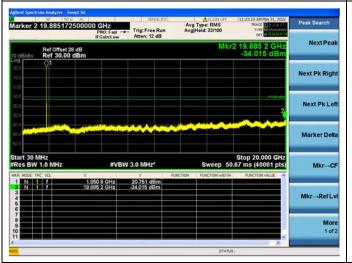


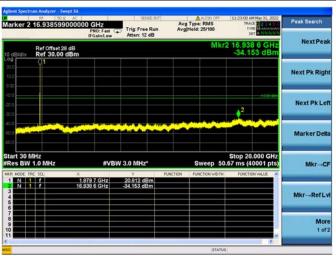




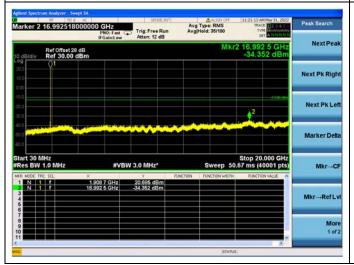
#### CDMA BC1 (1xRTT), CH25, 1851.25MHz

#### CDMA BC1 (1xRTT), CH600, 1880.00MHz





#### CDMA BC1 (1xRTT), CH1175, 1908.75MHz



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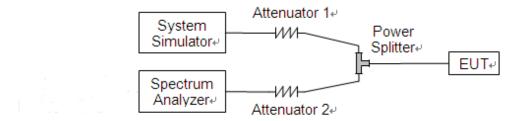
## 2.6. Band Edge

#### 2.6.1. Requirement

According to FCC section 22.917(a) and 24.238(a) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P)dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency.

#### 2.6.2. Test Description

Test Setup:

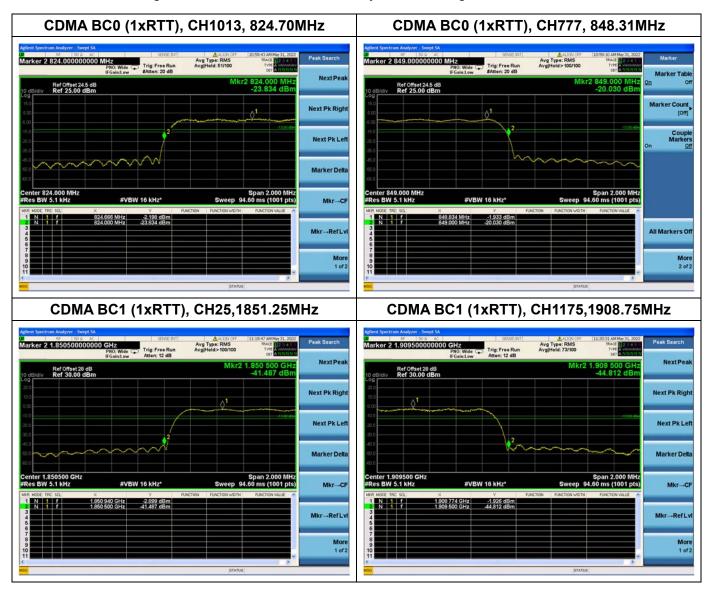


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



#### 2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.





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# 2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements

#### 2.7.1. Requirement

According to FCC section 22.913, the Effective Radiated Power (E.R.P.) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

#### 2.7.2. Test Description

The test setups refer to section 2.1.3

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

The relevant equation for determining the maximum E.R.P. or E.I.R.P. from the measured RF output power is given in Equation (1) as follows:

E.R.P. or E.I.R.P. =  $P_{Meas} + G_{T}$ 

Where:

E.R.P. or E.I.R.P. effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as  $P_{Meas}$ , e.g., dBm or dBW)

 $P_{\text{Meas}}$  measured transmitter output power or PSD, in dBm or dBW

G<sub>T</sub> gain of the transmitting antenna, in dBd (E.R.P.) or dBi (E.I.R.P.)

For devices utilizing multiple antennas, see ANSI C63.25-2015 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between E.R.P. and E.I.R.P.:

- a) E.R.P. = E.I.R.P. 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.
- b) E.I.R.P. = E.R.P. + 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.





#### 2.7.3. Test Result

CDMA2000 BC0									
Pand	Channel	Frequency	PCL	Measure	Measured E.R.P.		Limit		
Band	Channel	(MHz)	PCL	dBm	W	dBm	W	Verdict	
	1013	824.70	5	16.20	0.042			PASS	
1xRTT	384	836.52	5	16.06	0.040	38.5	7	PASS	
	777	848.31	5	16.13	0.041			PASS	
Note 1: O	nly the wors	t data were red	orded i	n this report					

CDMA2000 BC1									
Dand	Channal	Frequency	PCL	Measure	ed E.R.P.	Lim	iit	Verdict	
Band	Channel	(MHz)	PCL	dBm	w	dBm	W	verdict	
	25	1851.25	5	20.10	0.102			PASS	
1xRTT	600	1880.00	5	20.23	0.105	33	2	PASS	
	1175	1908.75	5	20.17	0.104			PASS	
Note 1: O	nly the wore	t data were rec	orded i	n this report					

**Note 1:** Only the worst data were recorded in this report.

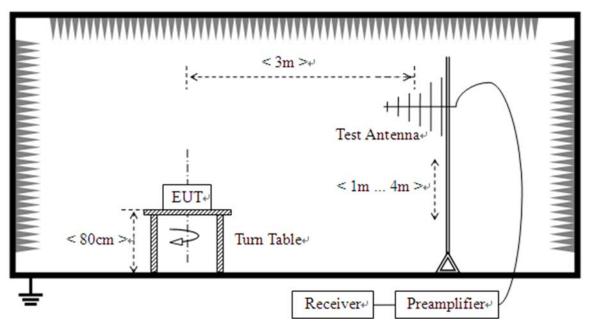


#### 2.8. Radiated Out of Band Emissions

#### 2.8.1. Requirement

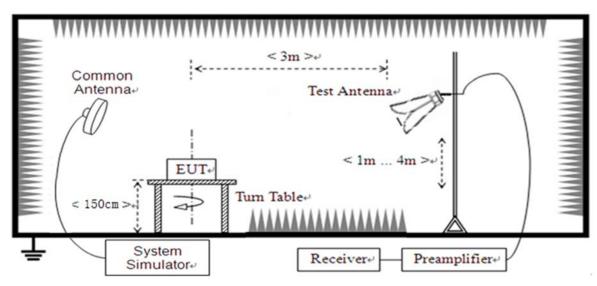
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P)dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

#### 2.8.2. Test Description



(For the test frequency from 30MHz to1GHz)





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

**Note:** When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

#### 2.8.3. Test Procedure

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.





#### 2.8.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

A<sub>SUBST</sub> = P<sub>SUBST TX</sub> - P<sub>SUBST RX</sub> - L<sub>SUBST CABLES</sub> + G<sub>SUBST TX ANT</sub>

 $A_{TOT} = L_{CABLES} + A_{SUBST}$ 

Where A<sub>SUBST</sub> is the final substitution correction including receive antenna gain.

P<sub>SUBST TX</sub> is signal generator level,

P<sub>SUBST RX</sub> is receiver level,

L<sub>SUBST CABLES</sub> is cable losses including TX cable,

G<sub>SUBST TX</sub> ANT is substitution antenna gain.

A<sub>TOT</sub> is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{TOT}$  was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of  $A_{TOT}$ .

**Note1:** The power of the EUT transmitting frequency should be ignored.

**Note2:** All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

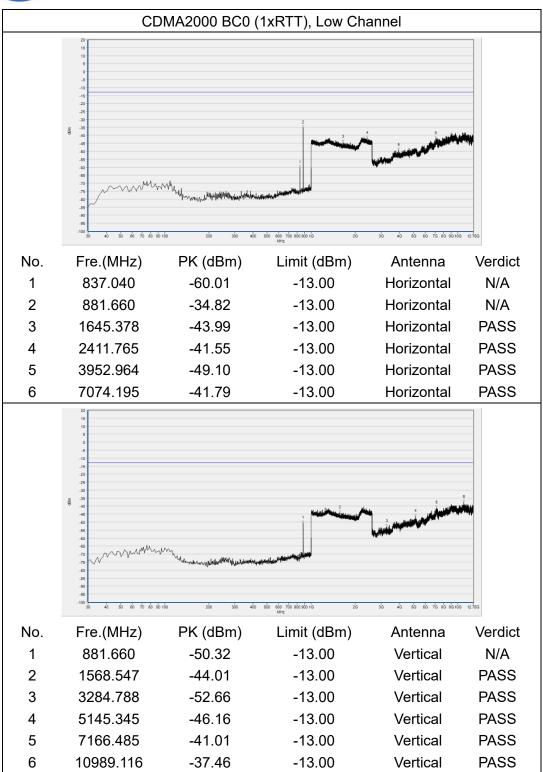
**Note3:** All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note 4:** N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

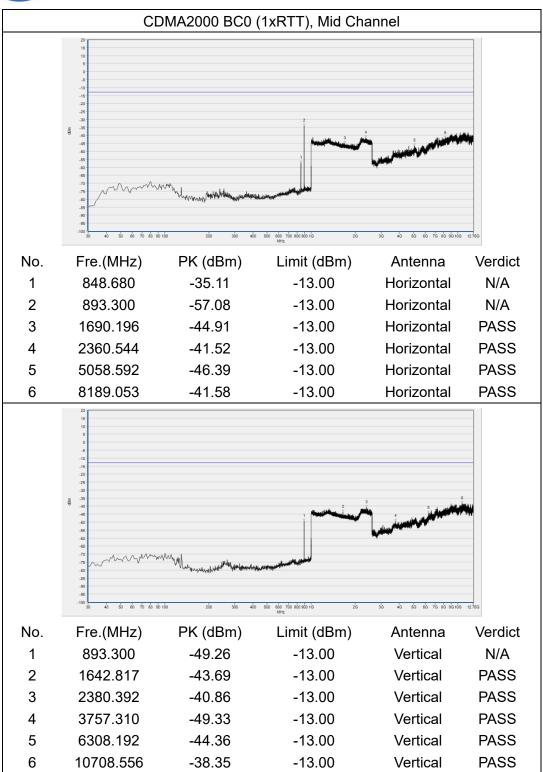
**Note5:** The amplitude of emissions(18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.







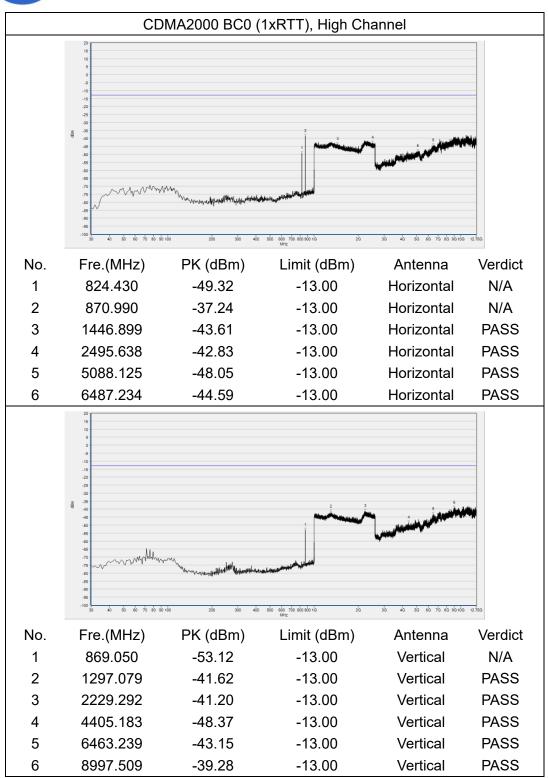




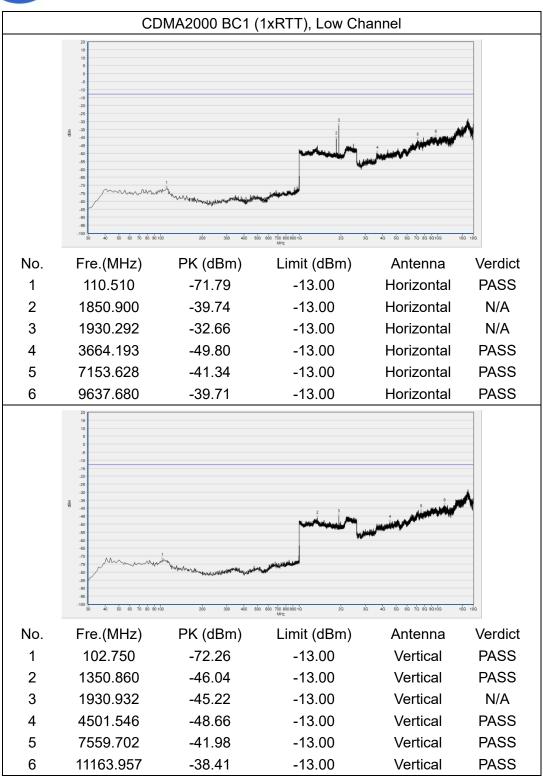
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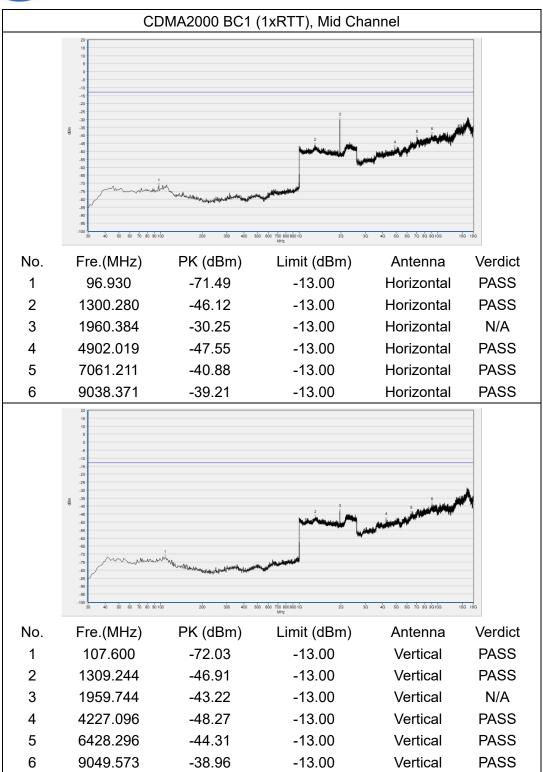




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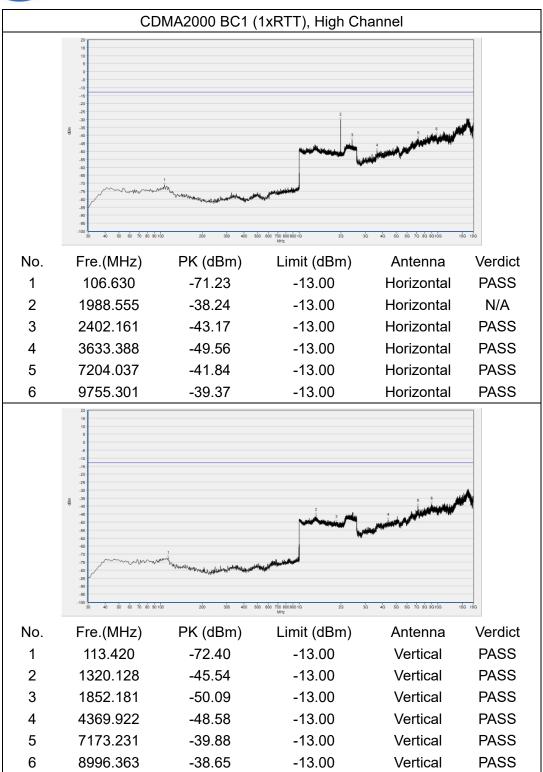




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## **Annex A Test Uncertainty**

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77dB
Radiated Emission	±2.95dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





## **Annex B Testing Laboratory Information**

#### 1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Laboratory Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

#### 2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

#### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





#### 4. Test Equipments Utilized

#### **4.1 Conducted Test Equipments**

<b>Equipment Name</b>	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2021.07.26	2022.07.25
EXA Signal Analyzer	MY54170556	N9030A	Agilent	2021.10.20	2022.10.19
System Simulator	6200995016	MT8820C	Anritsu	2021.10.21	2022.10.20
System Simulator	6261830572	MT8821C	Anritsu	2022.02.14	2023.02.13
Temperature Chamber	20171112102	HZ-2019	Dongguan Lixian Instrument Technology Co., Ltd	2021.10.20	2022.10.19

#### 4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab FCC Test System	MORLAB	V3.0
MORLAB EMCR V1.2	MORLAB	V1.0



#### 4.3 Radiated Test Equipments

Equipment		_				
Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date	
System Simulator	152038	CMW500	R&S	2021.10.21	2022.10.20	
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15	
Test Antenna -	0162 510	VIII D 0462	Caburarehaal	2019.05.24	2022.05.23	
Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24	
Test Antenna -	9170C-531	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25	
Horn	01700 001	BB117101710	Conwarzbook	2010.07.20	2022.07.20	
Test Antenna -	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25	
Horn	0	22	- Commanda Com	2010.01.20	2022.07.20	
Coaxial cable						
(N male)	CB04	EMC04	Morlab	N/A	N/A	
(9kHz-30MHz)						
Coaxial cable						
(N male)	CB02	EMC02	Morlab	N/A	N/A	
(30MHz-26GHz)						
Coaxial cable						
(N male)	CB03	EMC03	Morlab	N/A	N/A	
(30MHz-26GHz)						
Coaxial cable	0005	EN4005	<b>N</b> 4 1 1	21/0	21/2	
(N male)	CB05	EMC05	Morlab	N/A	N/A	
(30MHz-40GHz)		0000400100				
1-18GHz	61171/61172	S020180L32	Tonscend	2021.07.16	2022.07.15	
pre-Amplifier		03				
18-26.5GHz	46732	S10M100L38	Tonscend	2021.07.16	2022.07.15	
pre-Amplifier		02 S40M400L40				
26-40GHz pre-Amplifier	56774	02	Tonscend	2021.07.16	2022.07.15	
bie-Vilibillei		WRCG-CDM				
Notch Filter	N/A	A2000 BC0	Wainwright	2021.07.16	2022.07.15	
		WRCG-CDM				
Notch Filter	N/A	A2000 BC1	Wainwright	2021.07.16	2022.07.15	
Anechoic	NI/A	0~*6~-*6~-	CDT	2010 07 12	2022 07 42	
Chamber	N/A	9m*6m*6m	CRT	2019.07.13	2022.07.12	

END OF REPORT	
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