



**中认信通**  
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



# TEST REPORT

**Applicant: INFINIX MOBILITY LIMITED**

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25  
SHAN MEI STREET FOTAN NT HONGKONG

**FCC ID: 2AIZN-X6850**

**Product Name: Mobile Phone**

**Standard(s): 47 CFR Part 2  
47 CFR Part 22, Subpart H  
47 CFR Part 24, Subpart E  
47 CFR Part 27  
ANSI C63.26-2015**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number: CR231061271-00G**

**Date Of Issue: 2024/1/22**

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## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## CONTENTS

<b>DOCUMENT REVISION HISTORY .....</b>	<b>5</b>
<b>1. GENERAL INFORMATION .....</b>	<b>6</b>
<b>1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....</b>	<b>6</b>
<b>1.2 DESCRIPTION OF TEST CONFIGURATION.....</b>	<b>8</b>
1.2.1 EUT Operation Condition:.....	8
1.2.2 Support Equipment List and Details .....	12
1.2.3 Support Cable List and Details .....	12
1.2.4 Block Diagram of Test Setup.....	12
<b>1.3 MEASUREMENT UNCERTAINTY .....</b>	<b>13</b>
<b>2. SUMMARY OF TEST RESULTS .....</b>	<b>14</b>
<b>3. REQUIREMENTS AND TEST PROCEDURES .....</b>	<b>15</b>
3.1 Applicable Standard For Part 22 Subpart H:.....	15
3.1.1 RF Output Power .....	15
3.1.2 Spurious Emissions .....	15
3.1.3 Frequency stability.....	15
3.2 Applicable Standard For Part 24 Subpart E: .....	17
3.2.1 RF Output Power .....	17
3.2.2 Spurious Emissions .....	17
3.2.3 Frequency stability.....	17
3.3 Applicable Standard For Part 27:.....	18
3.3.1 RF Output Power .....	18
3.3.2 Spurious Emissions .....	18
3.3.3 Frequency stability.....	20
3.4 Test Method: .....	21
3.4.1 RF Output Power .....	21
3.4.2 Occupied Bandwidth.....	22
3.4.3 Spurious emissions at antenna terminals.....	23
3.4.4 Out of band emission .....	24
3.4.5 Frequency stability.....	25
3.4.6 Field strength of spurious radiation.....	26
<b>4. Test DATA AND RESULTS .....</b>	<b>28</b>
<b>4.1 ANTENNA PORT TEST DATA AND RESULTS FOR GSM 850 BAND:.....</b>	<b>28</b>
<b>4.2 ANTENNA PORT TEST DATA AND RESULTS FOR GSM 1900 BAND:.....</b>	<b>34</b>
<b>4.3 ANTENNA PORT TEST DATA AND RESULTS FOR WCDMA BAND 2: .....</b>	<b>40</b>
<b>4.4 ANTENNA PORT TEST DATA AND RESULTS FOR WCDMA BAND 4: .....</b>	<b>47</b>
<b>4.5 ANTENNA PORT TEST DATA AND RESULTS FOR WCDMA BAND 5: .....</b>	<b>54</b>
<b>4.6 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 2.....</b>	<b>61</b>
<b>4.7 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 4.....</b>	<b>83</b>

**4.8 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 5..... 104**

**4.9 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 7..... 120**

**4.10 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 38..... 136**

**4.11 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 40..... 152**

**4.12 ANTENNA PORT TEST DATA AND RESULTS FOR LTE BAND 41..... 170**

**4.13 RADIATED SPURIOUS EMISSIONS..... 190**

**5. EUT PHOTOGRAPHS ..... 203**

**6. TEST SETUP PHOTOGRAPHS ..... 204**

## DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061271-00G	Original Report	2024/1/22

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

#### General:

<b>EUT Name:</b>	Mobile Phone
<b>EUT Model<sup>Note</sup>:</b>	X6850
<b>Operation Bands and modes:</b>	GSM/GPRS/EDGE: 850/1900 WCDMA: Band 2/4/5 LTE: Band 2/4/5/7/38/40/41
<b>Modulation Type:</b>	GMSK, 8PSK, BPSK, QPSK, 16QAM
<b>Rated Input Voltage:</b>	DC 5V or 5-10V or 11V or 4-20V from adapter or DC 3.91V from battery
<b>Serial Number:</b>	Radiated Spurious Emissions: 2CGI-1(Normal version) RF Conducted:2CGI-2(Normal version)
<b>EUT Received Date:</b>	2023/10/21
<b>EUT Received Status:</b>	Good

#### Note:

This model has two versions: Normal version and Lighting version, the two versions are electrically identical, please refer to the declaration letter for more detail, which was provided by manufacturer. All tests were performed with normal version, since it is the worst model per BLE test report.

#### Operation Voltage(V<sub>DC</sub>) ▲:

Lowest:	3.45	Normal:	3.91	Highest:	4.5
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#### Antenna Information ▲:

Antenna	Manufacturer	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain (Gr) (dBi)	Lc (dB)
2	Dongguan Guangzheng Mold Plastic Co., Ltd	LDS	GSM850	824-849	-6.89	0.2
			WCDMA B5	824-849	-6.89	0.2
			LTE B5	824-849	-6.89	0.2
4		LDS	PCS1900	1850-1910	-2.8	/
			WCDMA B2	1850-1910	-2.8	/
			WCDMA B4	1710-1755	-2.7	/
			LTE B2	1850-1910	-2.8	/
			LTE B4	1710-1755	-2.7	/
			LTE B7	2500-2570	-0.88	/
			LTE B38	2570-2620	-0.88	/
LTE B40 Lower	2305-2315	-1.34	/			
LTE B40 Upper	2350-2360	-1.34	/			
LTE B41	2535-2655	-0.88	/			

#### Note:

Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.

GSM850/WCDMA B5/LTE B5 transmits at antenna 0, other band transmits at Antenna 4, another WWAN antenna receiving only or no use.

**Accessory Information:**

Accessory Description	Manufacturer	Model	Parameters
Adapter #1	Unknown	U700XSA	Input: 100-240V~50/60Hz 2.0A Output: 5.0V 3.0A 15.0W or 5.0-10.0V 7.0A MAX or 11.0V 6.4A MAX or 4.0-20.0V 3.5A 70.0W MAX
Adapter #2	Unknown	U700XSA	Input: 100-240V~50/60Hz 2.0A Output: 5.0V 3.0A 15.0W or 5.0-10.0V 7.0A MAX or 11.0V 6.4A MAX or 4.0-20.0V 3.5A 70.0W MAX

Note: The two adapters are electrically identical, but different manufacturers, only adapter 1# was tested for this report since it is the worst adapter per BLE test report.

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in each operation mode. Per BLE tests, the Sample #1 & Adapter #1 pattern was the worst.
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	No
The maximum power was configured per 3GPP Standard for each operation modes as below setting:	
GSM/GPRS/EGPRS	
Function: Menu select > GSM Mobile Station > GSM 850/1900	
Press Connection control to choose the different menus	
Press RESET > choose all the reset all settings	
Connection Press Signal Off to turn off the signal and change settings	
Network Support > GSM + GPRS or GSM + EGSM	
Main Service > Packet Data	
Service selection > Test Mode A – Auto Slot Config. off	
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting	
<ul style="list-style-type: none"> <li>&gt; Slot configuration &gt; Uplink/Gamma</li> <li>&gt; 33 dBm for GPRS 850</li> <li>&gt; 30 dBm for GPRS 1900</li> <li>&gt; 27 dBm for EGPRS 850</li> <li>&gt; 26 dBm for EGPRS 1900</li> </ul>	
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel	
Frequency Offset > + 0 Hz	
Mode > BCCH and TCH	
BCCH Level > -85 dBm (May need to adjust if link is not stable)	
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]	
Channel Type > Off	
P0 > 4 dB	
Slot Config > Unchanged (if already set under MS signal)	
TCH > choose desired test channel	
Hopping > Off	
Main Timeslot > 3	
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)	
Bit Stream > 2E9-1 PSR Bit Stream	
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input	
Connection Press Signal on to turn on the signal and change settings	



**WCDMA**

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	<b>Mode</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>
	<b>Subset</b>	<b>1</b>	<b>2</b>		<b>4</b>	<b>5</b>
<b>WCDMA General Settings</b>	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	$\beta$	11/15	6/15	15/15	2/15	15/15
	$\beta_d$	15/15	15/15	9/15	15/15	0
	$\beta_{ec}$	209/225	12/15	30 15	2/15	5/15
	$\beta_c/\beta_d$	11/15	6/15	15/9	2/15	-
	$\beta_{hs}$	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.	2.0	3.0	1.0
MPR(dB)	0	2	1	2	0	
<b>HSDPA Specific Settings</b>	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs}=\beta_{hs}/\beta_c$	30/15				
<b>HSUPA Specific Settings</b>	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	A Index	20	12	1	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k p	242.1	174.9	482.8	205.8	308.9
	Reference E_FCIs	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		

**LTE (FDD):**

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3**

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01".

**Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)**

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks ( $N_{RB}$ )	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 96	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 <sup>1</sup>	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

**LTE(TDD):**

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink				Extended cyclic prefix in downlink	
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

**Calculated Duty Cycle**

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T<sub>s</sub>) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%

where

T<sub>s</sub> = 1/(15000 x 2048) seconds

**1.2.2 Support Equipment List and Details**

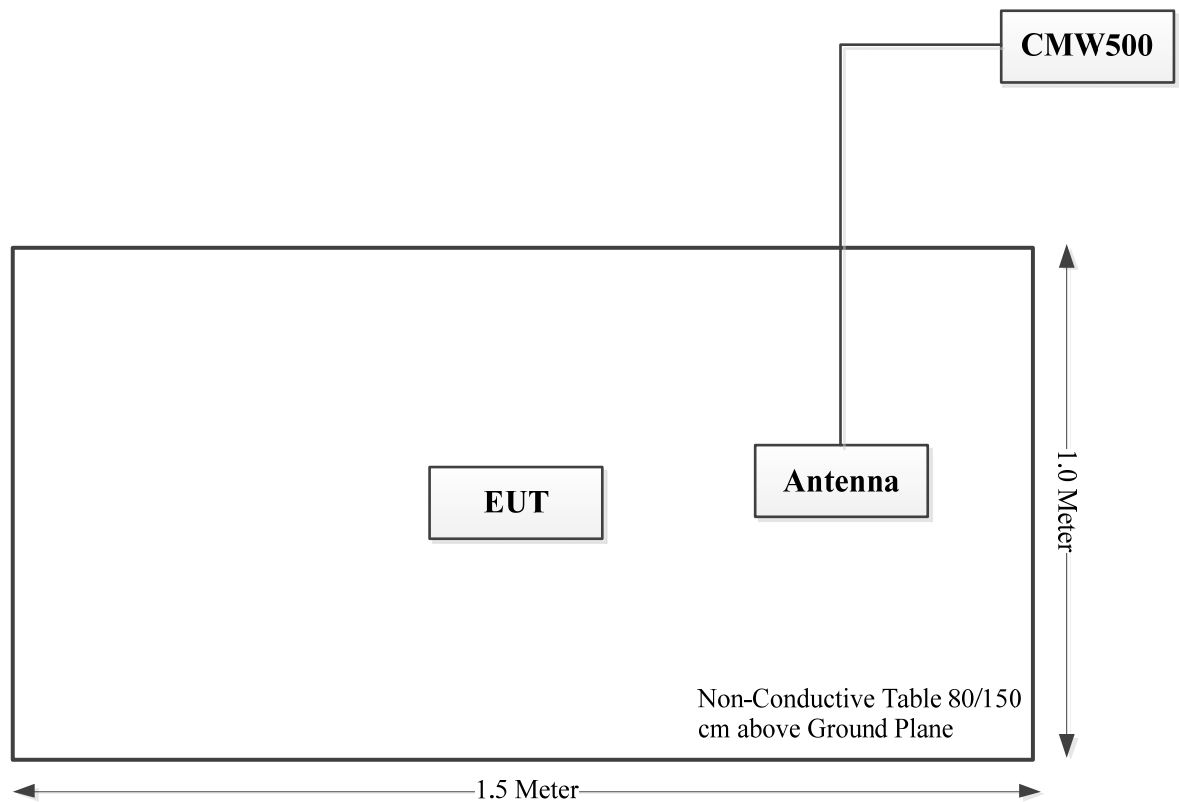
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	149218
Unknown	Antenna	Unknown	Unknown

**1.2.3 Support Cable List and Details**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

**1.2.4 Block Diagram of Test Setup**

Radiation Test:



### 1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	±0.082×10 <sup>-6</sup>

## 2. SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§2.1046; § 22.913; § 24.232; §27.50	RF Output Power	Compliant
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905, §22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant
FCC§ 2.1051; § 22.917; § 24.238; §27.53	Spurious Emissions at Antenna Terminal	Compliant
FCC§ 22.917; § 24.238; §27.53	Out of band emission, Band Edge	Compliant
FCC§ 2.1055 § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
FCC§ 2.1053 § 22.917; § 24.238; §27.53	Field Strength of Spurious Radiation	Compliant

### 3. REQUIREMENTS AND TEST PROCEDURES

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#### 3.1 Applicable Standard For Part 22 Subpart H:

##### 3.1.1 RF Output Power

FCC §22.913

(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.

(d) *Power measurement.* Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-toaverage ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:

- (1) A Commission-approved average power technique (*see* FCC Laboratory's Knowledge Database); or
- (2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rmsequivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, *etc.*, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

##### 3.1.2 Spurious Emissions

FCC §22.917

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:

- (1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

##### 3.1.3 Frequency stability

FCC §22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1 - Frequency Tolerance for Transmitters in the Public Mobile Services

<b>Frequency range (MHz)</b>	<b>Base, fixed (ppm)</b>	<b>Mobile &gt;3 watts (ppm)</b>	<b>Mobile <math>\leq</math>3 watts (ppm)</b>
25 to 50	20	20	50
50 to 450	5	5	50
450 to 512	2.5	5	5
821 to 896	1.5	<b>2.5</b>	<b>2.5</b>
928 to 929	5	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10	n/a	n/a



### **3.2 Applicable Standard For Part 24 Subpart E:**

#### **3.2.1 RF Output Power**

FCC §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.

(d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### **3.2.2 Spurious Emissions**

FCC §24.238

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

#### **3.2.3 Frequency stability**

FCC §24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 3.3 Applicable Standard For Part 27:

#### 3.3.1 RF Output Power

FCC §27.50

(a)(3) *Mobile and portable stations.*

(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.

(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.

(iv) *Prohibition on external vehicle-mounted antennas.* The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(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.

(h) The following power limits shall apply in the BRS and EBS:

(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

#### 3.3.2 Spurious Emissions

FCC §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than:  $43 + 10 \log (P)$  dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log (P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than  $61 + 10 \log (P)$  dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than  $67 + 10 \log (P)$  dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2300 and 2305 MHz,  $55 + 10 \log (P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log (P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log (P)$  dB on all frequencies between 2288 and 2292 MHz, and  $70 + 10 \log (P)$  dB below 2288 MHz;

(iii) By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2360 and 2365 MHz, and not less than  $70 + 10 \log (P)$  dB above 2365 MHz.

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) AWS emission limits

(1) **General protection levels.** Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 3.3.3 Frequency stability

FCC §27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 3.4 Test Method:

#### 3.4.1 RF Output Power

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5:

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

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

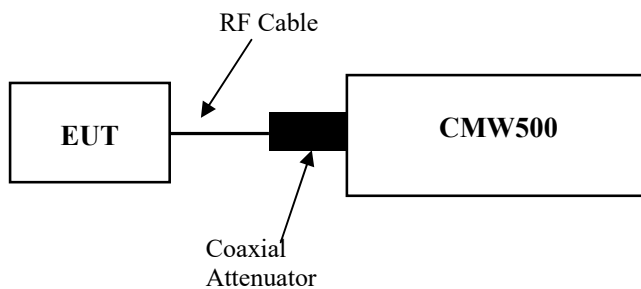
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively  
(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

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

$G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

#### Test Setup Block:



Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Reading of CMW500.

### 3.4.2 Occupied Bandwidth

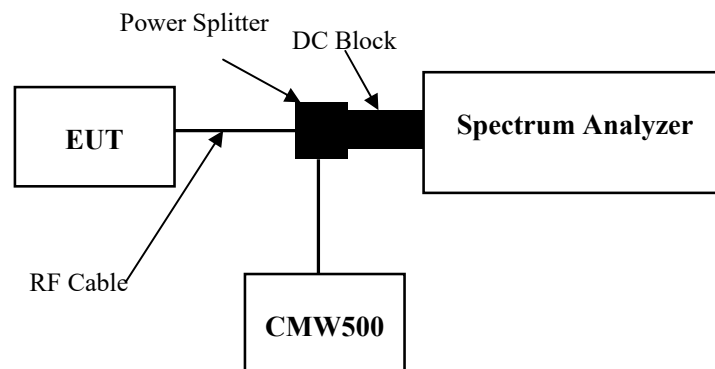
According to CFR Part 2.1049, ANSI C63.26-2015 Section 5.4.4

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of  $1.5 \times \text{OBW}$  is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set  $\geq 3 \times \text{RBW}$ .
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

#### Test Setup Block:

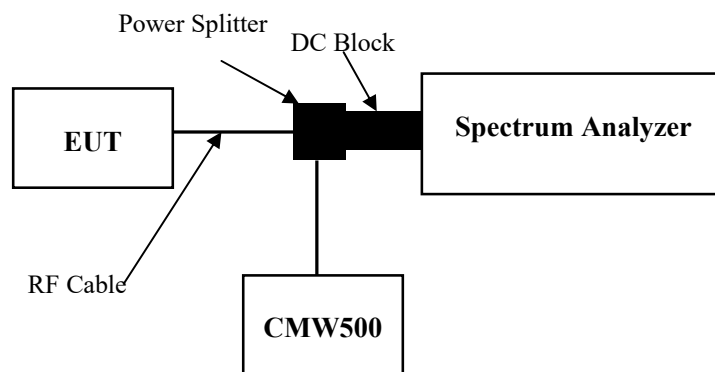


### 3.4.3 Spurious emissions at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4:

the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz),<sup>8</sup> effectively depicting the unwanted emission limit in terms of a power spectral density. In those cases where no reference bandwidth is explicitly specified, the values in the preceding sentence should be used.

#### Test Setup Block:

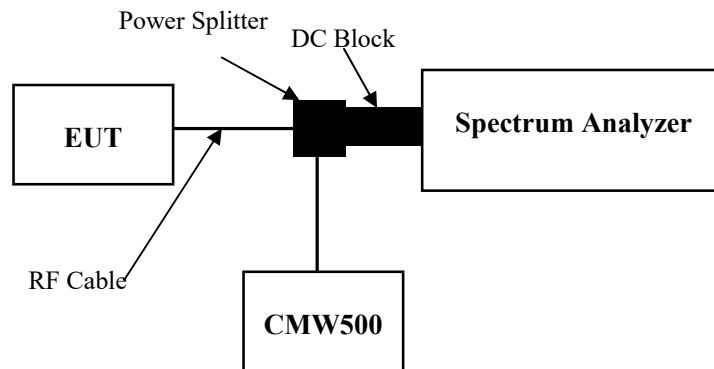


### 3.4.4 Out of band emission

According to ANSI C63.26-2015 Section 5.7.3:

Typically, a measurement (resolution) bandwidth smaller than the reference bandwidth is allowed for measurements within a specified frequency range at the edge of the authorized frequency block/band (e.g., within the first Y MHz outside of the authorized frequency band/block, where the value of Y is specified in the relevant rule part). Some FCC out-of-band emission rules permit the use of a narrower RBW (typically limited to a minimum RBW of 1 % of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth. Beyond the specified frequency range in which this relaxation of the uniform reference bandwidth is permitted, it typically is also acceptable to use a narrower RBW (again limited to a minimum of 1 % of OBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

#### Test Setup Block:





### 3.4.5 Frequency stability

According to ANSI C63.26-2015 Section 5.6:

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

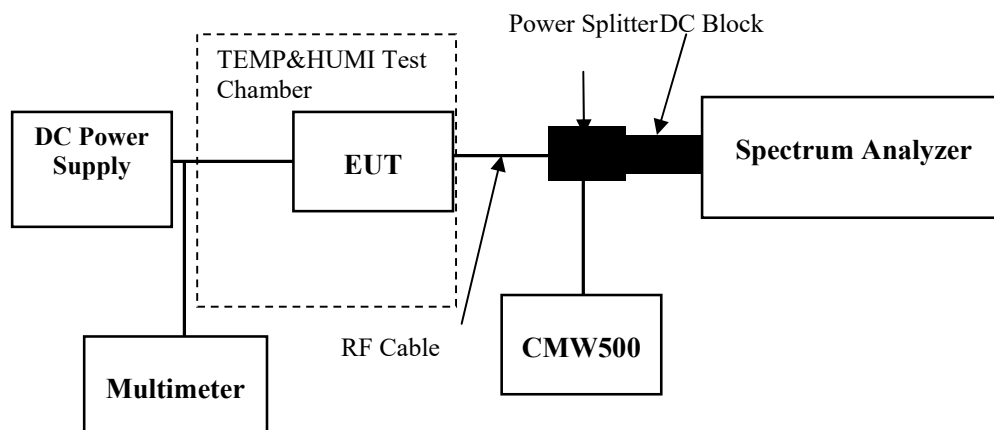
The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

- a) At 10 °C intervals of temperatures between –30 °C and +50 °C at the manufacturer's rated supply voltage, and
- b) At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage then the –15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

#### Test Setup Block:



### 3.4.6 Field strength of spurious radiation

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

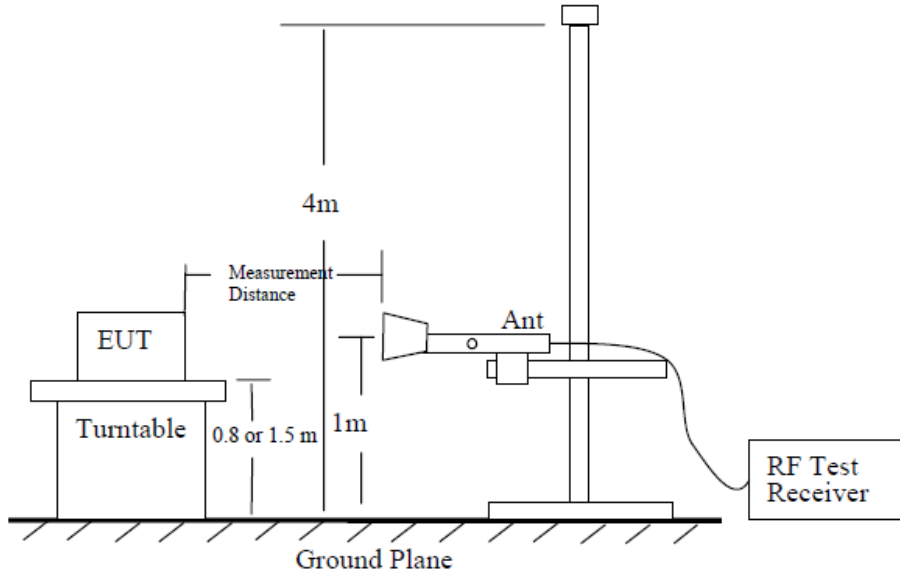


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

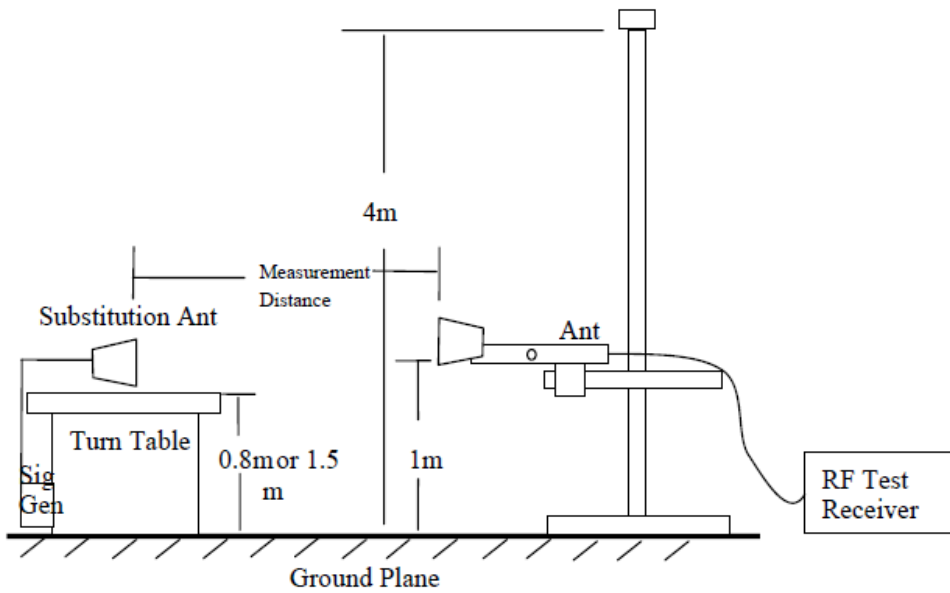


Figure 7—Substitution method set-up for radiated emission

**Test Procedure:**

- a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.
- b) Each emission under consideration shall be evaluated:
  - 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
  - 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
  - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
  - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
  - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:
  - 1) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
  - 2) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).
  - 3) Record the output power level of the signal generator when equivalence is achieved in step 2).
- h) Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.
- i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
 
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
 where
 

$P_e$	= equivalent emission power in dBm
$P_s$	= source (signal generator) power in dBm

 NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:  $\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}$ . If necessary, the antenna gain can be calculated from calibrated antenna factor information
- k) Provide the complete measurement results as a part of the test report.

## 4. Test DATA AND RESULTS

### 4.1 Antenna Port Test Data and Results for GSM 850 band:

Serial Number:	2CGI-2	Test Date:	2023/11/7~2024/1/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo, Jim Wei	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.9
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	6155/10/22	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	2292/10/8	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	1982/8/11	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GSM	824.2	836.6	848.8
GPRS	824.2	836.6	848.8
EDGE	824.2	836.6	848.8

**Test Data:****RF Output Power**

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	<b>32.83</b>	32.67	32.58	23.59	38.45
GPRS 1 Slot	31.71	31.41	31.31	22.47	38.45
GPRS 2 Slots	29.81	29.38	29.23	20.57	38.45
GPRS 3 Slots	27.82	27.36	27.23	18.58	38.45
GPRS 4 Slots	25.74	25.39	25.15	16.5	38.45
EDGE 1 Slot	<b>27.67</b>	27.29	27.51	18.43	38.45
EDGE 2 Slots	25.67	25.19	25.48	16.43	38.45
EDGE 3 Slots	23.64	23.27	23.45	14.4	38.45
EDGE 4 Slots	21.55	21.36	21.52	12.31	38.45

Note:

ERP= Conducted Power(dBm) - L<sub>c</sub>(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**Result:****Pass****Occupied Bandwidth**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.245	0.245	0.245	0.316	0.318	0.317
EDGE	0.245	0.245	0.243	0.308	0.308	0.314

Note: The test plots please refer to the Plots of Occupied Bandwidth

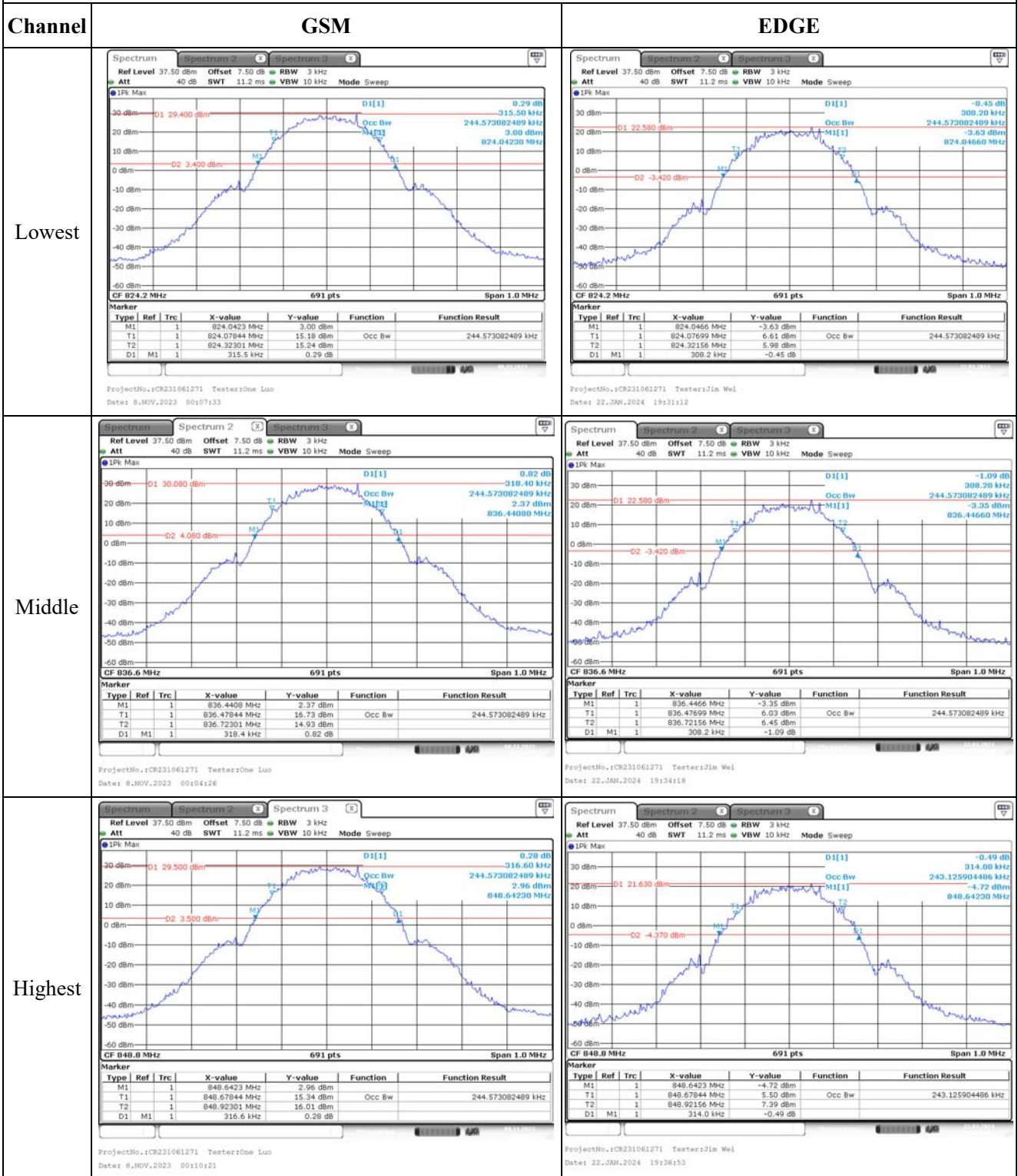
**Spurious Emissions at Antenna Terminal****Result:****Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.****Out of band emission, Band Edge****Result:****Pass, Please refer to the test plots of Out of band emission, Band Edge.**

<b>Frequency Stability</b>					
Test Modulation:	GMSK		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	0.42	0.001	2.5
	-20	3.91	6.84	0.008	2.5
	-10	3.91	-9.59	-0.011	2.5
	0	3.91	-8.15	-0.010	2.5
	10	3.91	-8.84	-0.011	2.5
	20	3.91	-9.83	-0.012	2.5
	30	3.91	8.34	0.010	2.5
	40	3.91	6.7	0.008	2.5
Frequency Stability vs. Voltage	50	3.91	-5.84	-0.007	2.5
	20	3.45	8.93	0.011	2.5
	20	4.5	-7.84	-0.009	2.5
				<b>Result:</b>	<b>Pass</b>

Test Modulation:	8PSK		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	0.89	0.001	2.5
	-20	3.91	9.15	0.011	2.5
	-10	3.91	8.54	0.010	2.5
	0	3.91	-7.13	-0.009	2.5
	10	3.91	-5.25	-0.006	2.5
	20	3.91	7.23	0.009	2.5
	30	3.91	-5.86	-0.007	2.5
	40	3.91	5.54	0.007	2.5
Frequency Stability vs. Voltage	50	3.91	6.88	0.008	2.5
	20	3.45	9.93	0.012	2.5
	20	4.5	9.94	0.012	2.5
				<b>Result:</b>	<b>Pass</b>

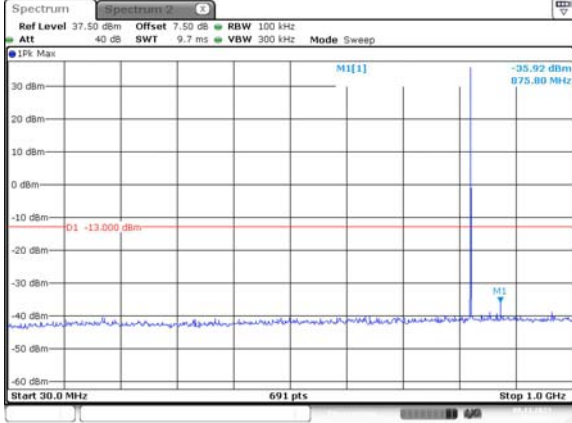
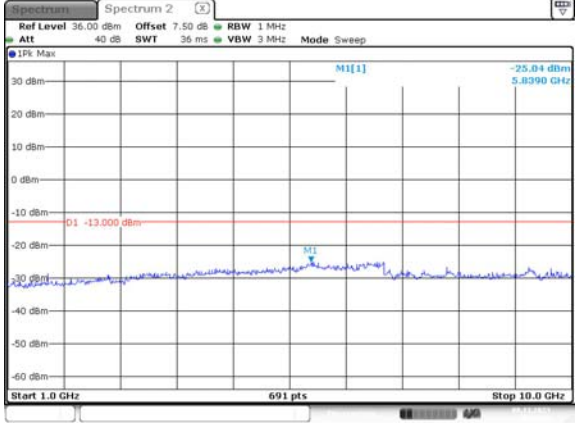
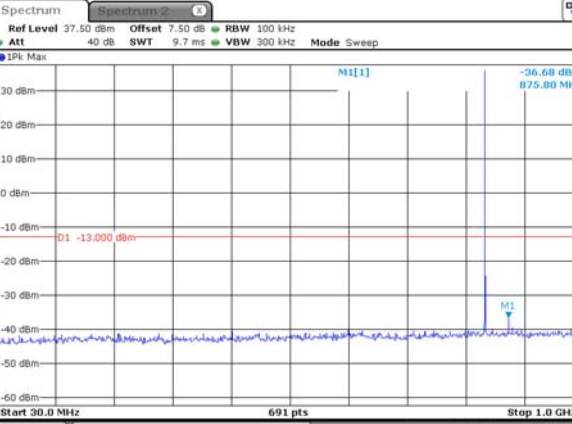
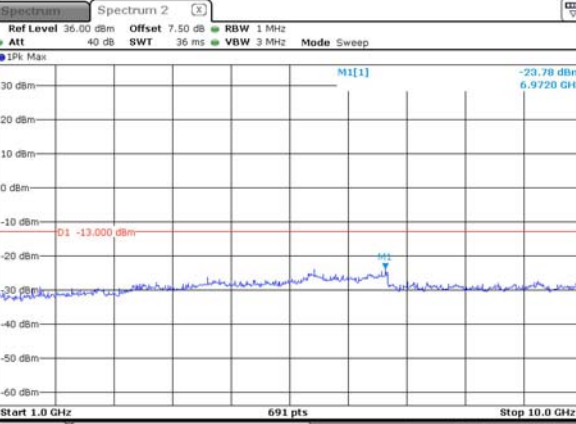
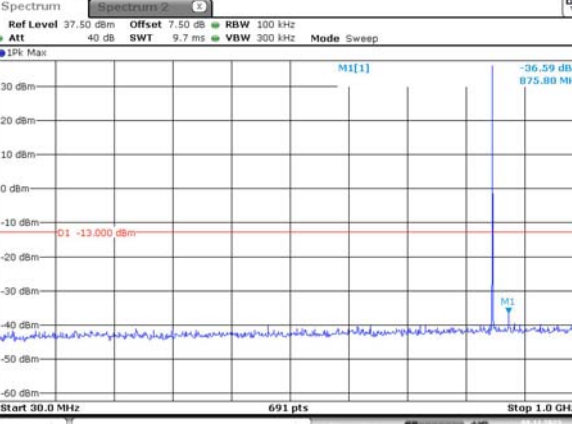
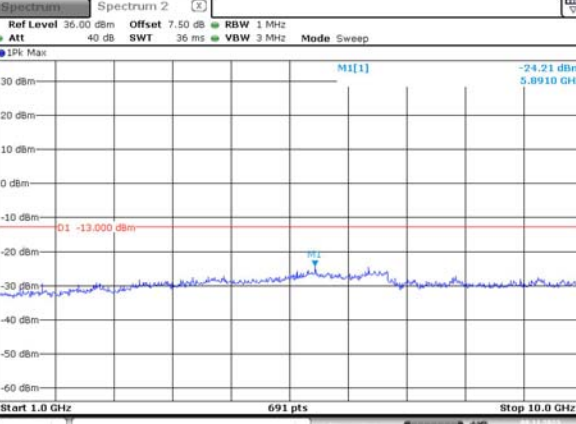
**Test Plots**(Note: The 7.5 dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**





Spurious Emissions at Antenna Terminal

Channel	GSM	
Lowest	 <p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep -35.92 dBm 875.80 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz</p>	 <p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep -25.04 dBm 5.8390 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz</p>
Middle	 <p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep -36.68 dBm 875.80 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz</p>	 <p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep -23.78 dBm 6.9720 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz</p>
Highest	 <p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep -36.59 dBm 875.80 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz</p>	 <p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep -24.21 dBm 5.8910 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz</p>



Out of band emission, Band Edge

Mode	Lowest	Highest
GSM		
EDGE		

**4.2 Antenna Port Test Data and Results for GSM 1900 band:**

Serial Number:	2CGI-2	Test Date:	2023/11/7~2024/1/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo, Jim Wei	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.9
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GSM	1850.2	1880	1909.8
GPRS	1850.2	1880	1909.8
EDGE	1850.2	1880	1909.8

**Test Data:**

<b>RF Output Power</b>					
Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	<b>27.56</b>	27.42	<b>27.56</b>	24.76	33
GPRS 1 Slot	26.53	26.35	26.39	23.73	33
GPRS 2 Slots	24.47	24.29	24.46	21.67	33
GPRS 3 Slots	22.46	22.37	22.55	19.75	33
GPRS 4 Slots	20.41	20.44	20.52	17.72	33
EDGE 1 Slot	24.41	<b>24.42</b>	24.37	21.62	33
EDGE 2 Slots	22.45	22.48	22.29	19.68	33
EDGE 3 Slots	20.44	20.38	20.28	17.64	33
EDGE 4 Slots	18.48	18.3	18.18	15.68	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)

<b>Result:</b>	<b>Pass</b>
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<b>Occupied Bandwidth</b>						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.245	0.246	0.246	0.317	0.321	0.304
EDGE	0.247	0.247	0.245	0.31	0.31	0.304

Note: The test plots please refer to the Plots of Occupied Bandwidth

<b>Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

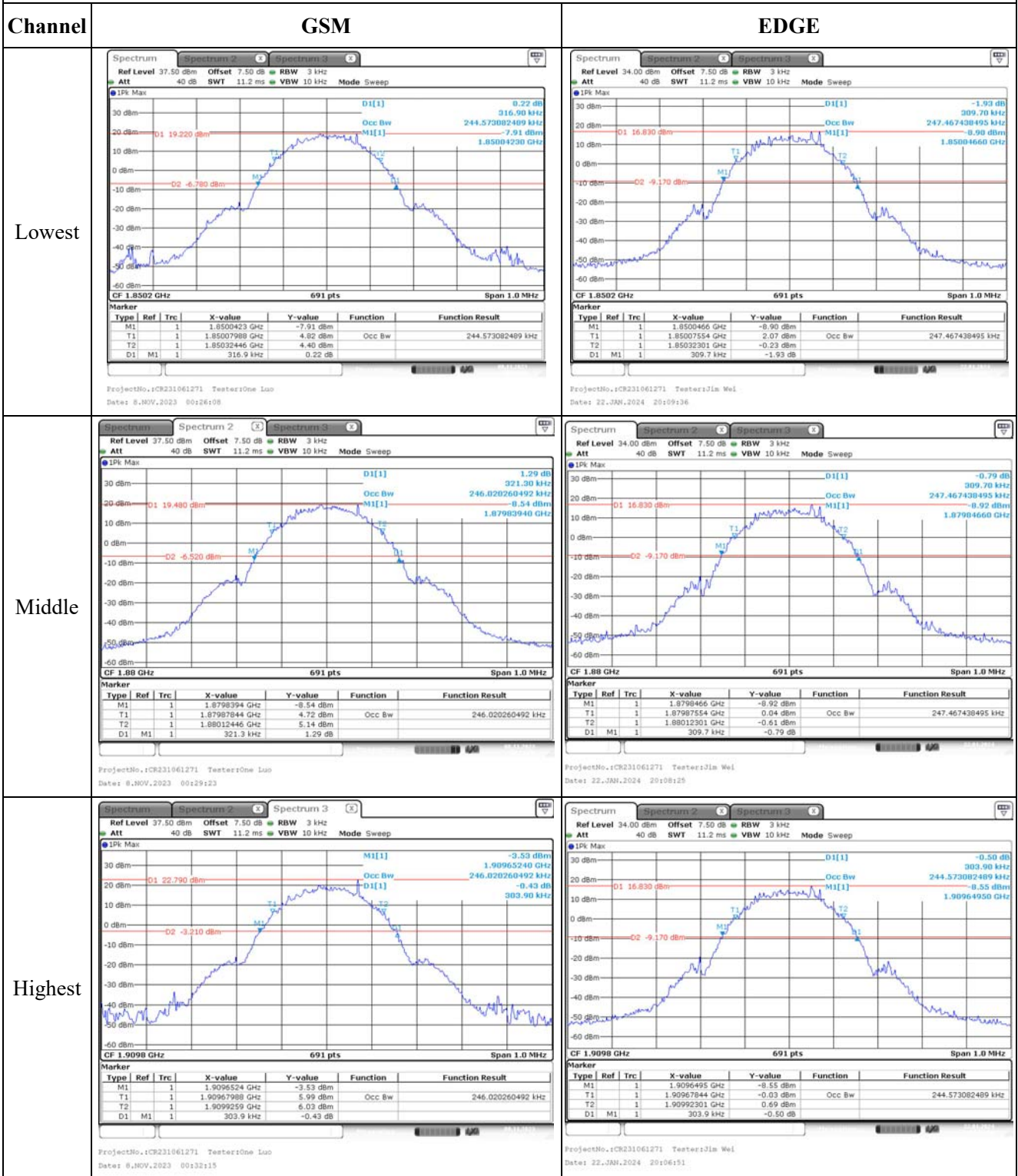
<b>Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>Frequency Stability</b>						
Test Mode:	GMSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.008	1850.000	1909.902	1910.000
	-20	3.91	1850.091	1850.000	1909.977	1910.000
	-10	3.91	1850.067	1850.000	1909.940	1910.000
	0	3.91	1850.030	1850.000	1909.999	1910.000
	10	3.91	1850.010	1850.000	1909.946	1910.000
	20	3.91	1850.080	1850.000	1909.926	1910.000
	30	3.91	1850.088	1850.000	1909.929	1910.000
	40	3.91	1850.020	1850.000	1909.908	1910.000
	50	3.91	1850.031	1850.000	1909.939	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.086	1850.000	1909.925	1910.000
	20	4.5	1850.074	1850.000	1909.907	1910.000
					<b>Result:</b>	<b>Pass</b>

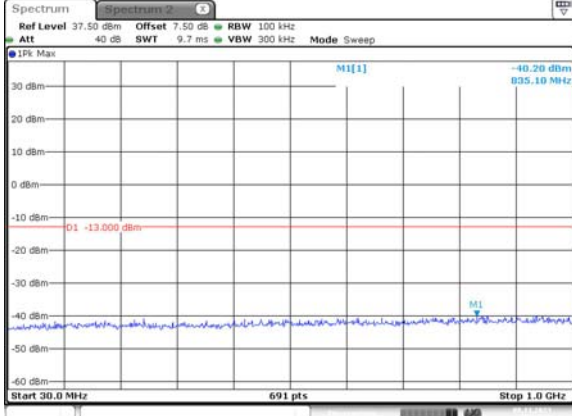
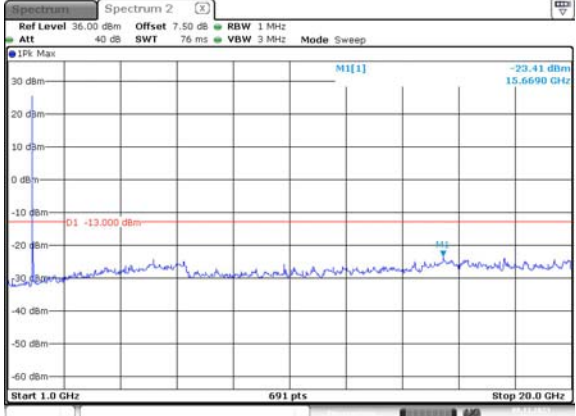
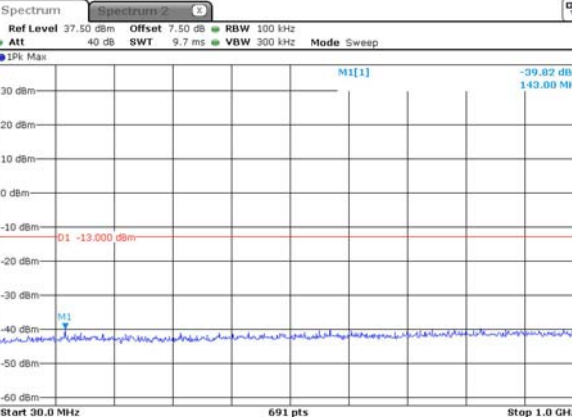
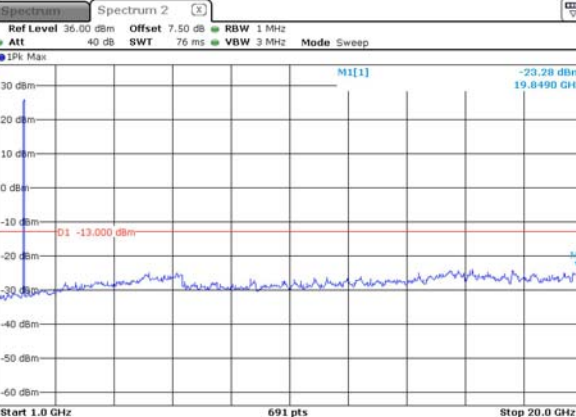
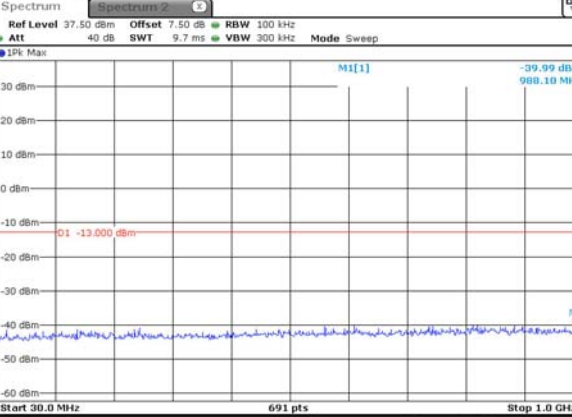
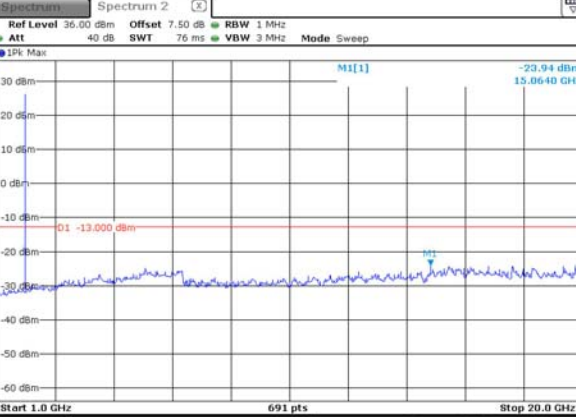
Test Mode:	8PSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.089	1850.000	1909.955	1910.000
	-20	3.91	1850.003	1850.000	1909.986	1910.000
	-10	3.91	1850.068	1850.000	1909.943	1910.000
	0	3.91	1850.044	1850.000	1909.992	1910.000
	10	3.91	1850.010	1850.000	1909.953	1910.000
	20	3.91	1850.008	1850.000	1909.922	1910.000
	30	3.91	1850.011	1850.000	1909.915	1910.000
	40	3.91	1850.048	1850.000	1909.904	1910.000
	50	3.91	1850.028	1850.000	1909.941	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.065	1850.000	1909.953	1910.000
	20	4.5	1850.021	1850.000	1909.940	1910.000
					<b>Result:</b>	<b>Pass</b>

**Test Plots** (Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



Spurious Emissions at Antenna Terminal

Channel	GSM	
Lowest	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:26:18</p>	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:25:49</p>
Middle	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:27:09</p>	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:27:52</p>
Highest	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:28:59</p>	 <p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 18:28:41</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
GSM	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 19:08:17</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 19:11:10</p>
EDGE	<p>ProjectNo.:CR231061271 Testers:Jim Wei Date: 22.JAN.2024 20:01:18</p>	<p>ProjectNo.:CR231061271 Testers:Jim Wei Date: 22.JAN.2024 20:02:45</p>



**4.3 Antenna Port Test Data and Results for WCDMA Band 2:**

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.1
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1852.4	1880	1907.6



**Test Data:**

<b>RF Output Power</b>					
Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	17.56	17.64	17.63	14.84	33
HSDPA Subtest 1	17.39	17.44	<b>17.89</b>	15.09	33
HSDPA Subtest 2	17.28	17.72	17.68	14.92	33
HSDPA Subtest 3	17.25	17.41	17.64	14.84	33
HSDPA Subtest 4	17.09	17.35	17.21	14.55	33
HSUPA Subtest 1	16.97	17.14	17.17	14.37	33
HSUPA Subtest 2	16.84	17.31	16.86	14.51	33
HSUPA Subtest 3	16.71	16.99	17.2	14.4	33
HSUPA Subtest 4	16.53	16.98	16.7	14.18	33
HSUPA Subtest 5	16.36	16.72	16.65	13.92	33
DC-HSDPA Subtest 1	16.33	16.79	16.5	13.99	33
DC-HSDPA Subtest 2	16.14	16.29	16.32	13.52	33
DC-HSDPA Subtest 3	16	16.51	16.31	13.71	33
DC-HSDPA Subtest 4	15.94	16.25	16.3	13.5	33
HSPA+ Subtest 1	15.76	16.13	16.02	13.33	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.22	3.07	3.13	13
HSDPA	4.93	5.19	4.58	13
HSUPA	4.93	5.51	5.36	13

**Result:****Pass**

<b>Occupied Bandwidth</b>						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.168	4.168	4.153	4.747	4.761	4.747
HSDPA	4.168	4.182	4.153	4.747	4.747	4.718
HSUPA	4.182	4.168	4.168	4.732	4.747	4.732

Note: The test plots please refer to the Plots of Occupied Bandwidth

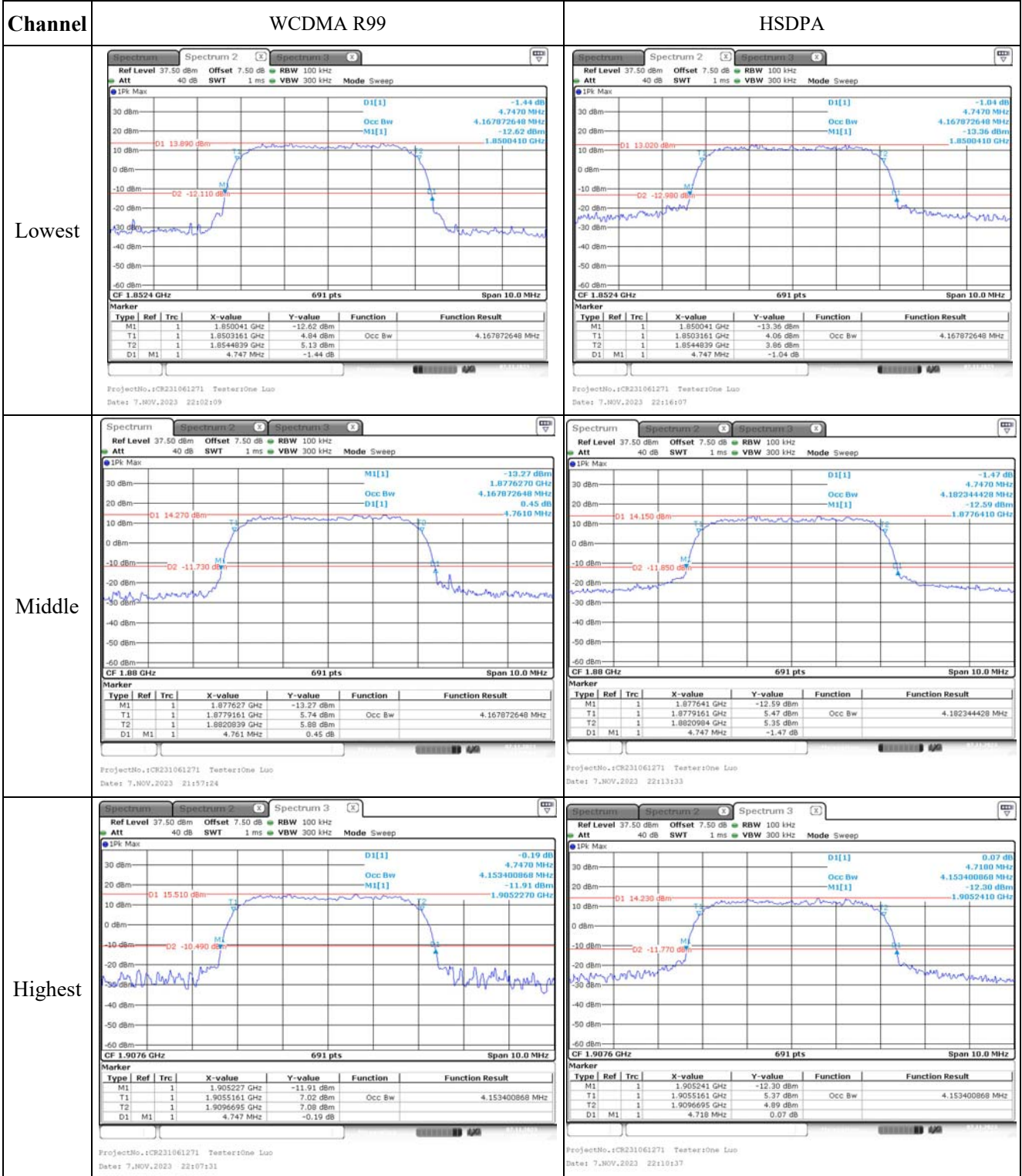
<b>Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

<b>Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>Frequency Stability</b>						
Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.396	1850.000	1909.693	1910.000
	-20	3.91	1850.388	1850.000	1909.659	1910.000
	-10	3.91	1850.369	1850.000	1909.699	1910.000
	0	3.91	1850.301	1850.000	1909.691	1910.000
	10	3.91	1850.316	1850.000	1909.693	1910.000
	20	3.91	1850.316	1850.000	1909.670	1910.000
	30	3.91	1850.309	1850.000	1909.698	1910.000
	40	3.91	1850.308	1850.000	1909.648	1910.000
	50	3.91	1850.389	1850.000	1909.646	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.340	1850.000	1909.626	1910.000
	20	4.5	1850.351	1850.000	1909.694	1910.000
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**

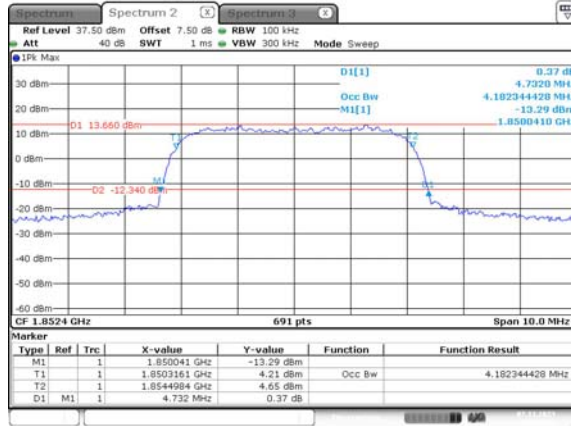


### Occupied Bandwidth

Channel

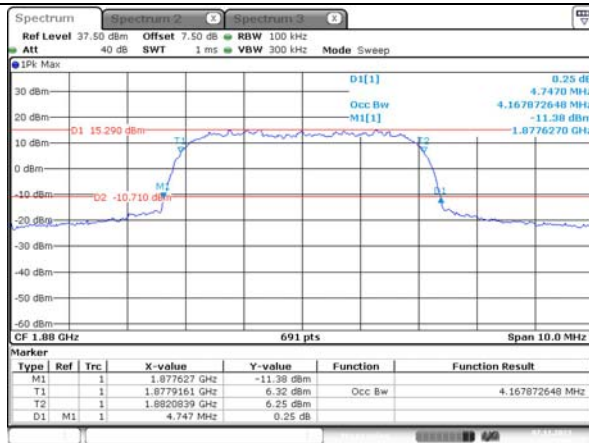
HSUPA

Lowest



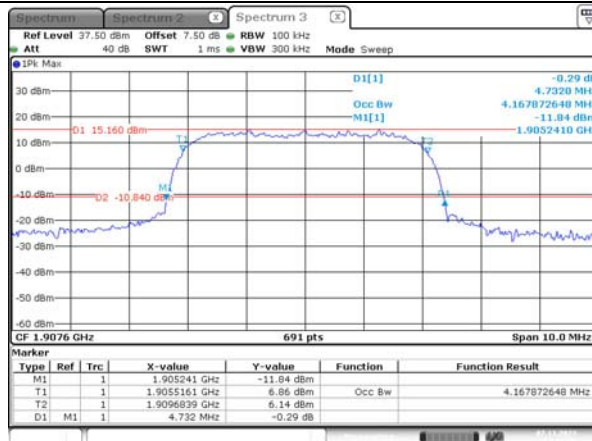
ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:19:10

Middle



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:23:42

Highest



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:26:04

Spurious Emissions at Antenna Terminal

Channel	WCDMA R99	
Lowest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -39.75 dBm 047.70 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 17:55:46</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -23.70 dBm 15.8890 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 17:57:22</p>
Middle	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -39.76 dBm 795.80 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 17:59:42</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -24.23 dBm 16.3040 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 17:58:36</p>
Highest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -39.70 dBm 731.20 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:00:31</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -23.74 dBm 15.6690 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:01:05</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:07:18</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:14:43</p>
HSDPA	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:09:25</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:13:41</p>
HSUPA	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:10:14</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 20:11:47</p>



**4.4 Antenna Port Test Data and Results for WCDMA Band 4:**

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.1
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1712.4	1732.6	1752.6

**Test Data:**

<b>RF Output Power</b>					
Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	18.79	<b>19.31</b>	18.95	16.61	30
HSDPA Subtest 1	18.67	18.83	19.14	16.44	30
HSDPA Subtest 2	18.52	19.02	18.78	16.32	30
HSDPA Subtest 3	18.47	18.97	18.87	16.27	30
HSDPA Subtest 4	18.4	18.58	18.96	16.26	30
HSUPA Subtest 1	18.26	18.77	18.51	16.07	30
HSUPA Subtest 2	18.14	18.55	18.63	15.93	30
HSUPA Subtest 3	18.05	18.43	18.06	15.73	30
HSUPA Subtest 4	18	18.17	18.42	15.72	30
HSUPA Subtest 5	17.91	17.98	18.21	15.51	30
DC-HSDPA Subtest 1	17.74	18.08	17.91	15.38	30
DC-HSDPA Subtest 2	17.61	17.98	17.98	15.28	30
DC-HSDPA Subtest 3	17.51	17.58	17.53	14.88	30
DC-HSDPA Subtest 4	17.42	17.95	17.64	15.25	30
HSPA+ Subtest 1	17.31	17.5	17.84	15.14	30
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G <sub>T</sub> (dBi)				<b>Result:</b>	<b>Pass</b>

<b>Peak-to-average Ratio(PAR)</b>					
Test Mode	Peak-to-average Ratio(dB)			Limit (dB)	
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	3.19	3.04	3.1	13	
HSDPA	5.01	4.84	4.96	13	
HSUPA	5.45	5.83	5.71	13	
				<b>Result:</b>	<b>Pass</b>



<b>Occupied Bandwidth</b>						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.182	4.168	4.168	4.732	4.747	4.761
HSDPA	4.168	4.182	4.197	4.732	4.718	4.776
HSUPA	4.182	4.182	4.182	4.747	4.761	4.747

Note: The test plots please refer to the Plots of Occupied Bandwidth

<b>Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

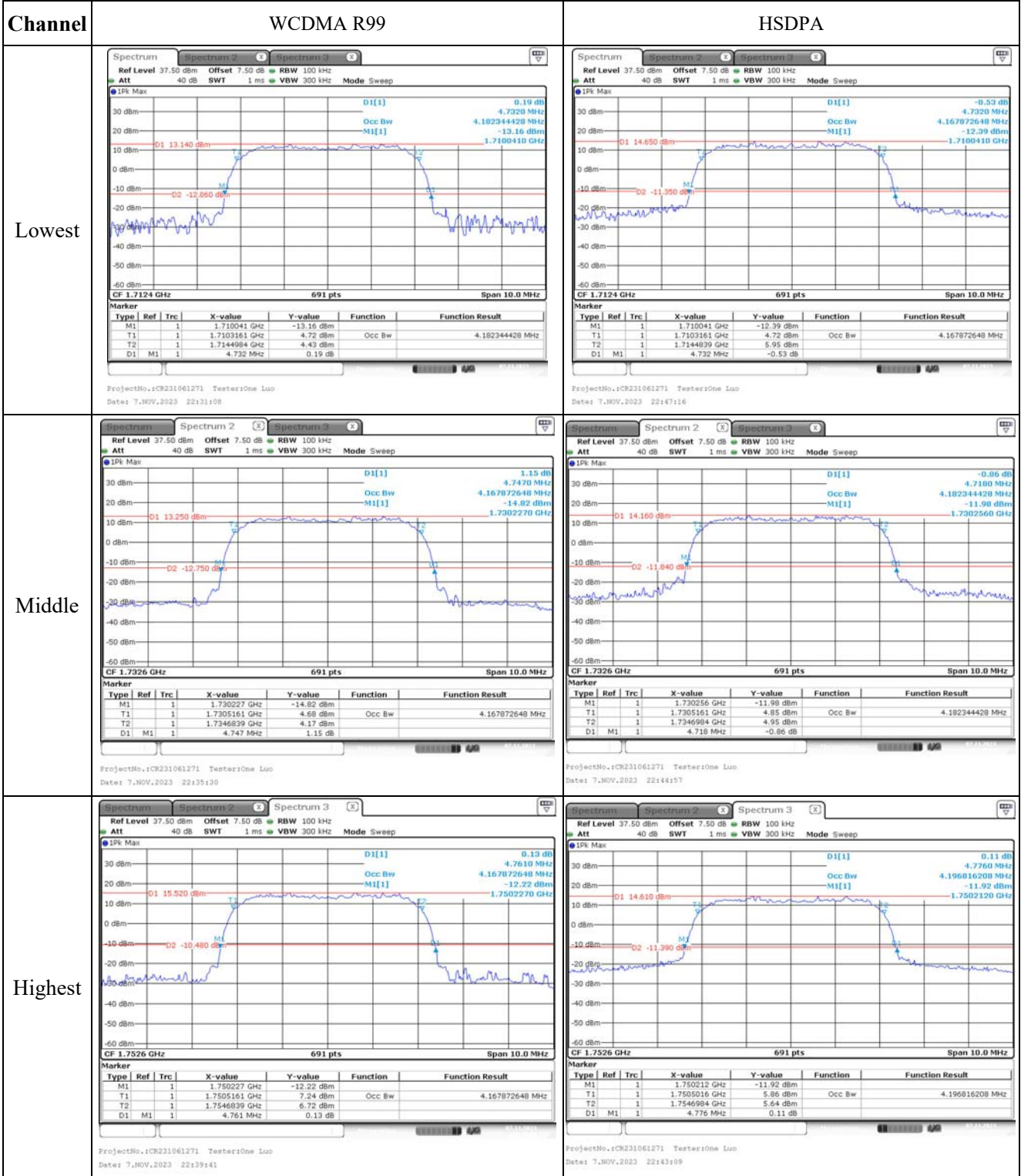
<b>Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

**Frequency Stability**

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.339	1710.000	1754.662	1755.000
	-20	3.91	1710.352	1710.000	1754.686	1755.000
	-10	3.91	1710.358	1710.000	1754.631	1755.000
	0	3.91	1710.305	1710.000	1754.670	1755.000
	10	3.91	1710.362	1710.000	1754.665	1755.000
	20	3.91	1710.316	1710.000	1754.684	1755.000
	30	3.91	1710.323	1710.000	1754.699	1755.000
	40	3.91	1710.336	1710.000	1754.659	1755.000
	50	3.91	1710.301	1710.000	1754.656	1755.000
Frequency Stability vs. Voltage	20	3.45	1710.334	1710.000	1754.674	1755.000
	20	4.5	1710.310	1710.000	1754.640	1755.000
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**

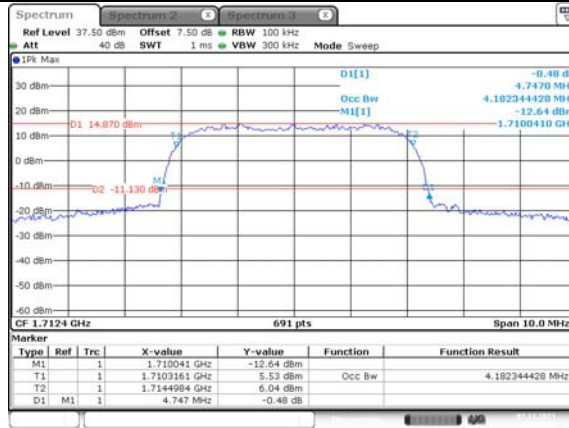


### Occupied Bandwidth

Channel

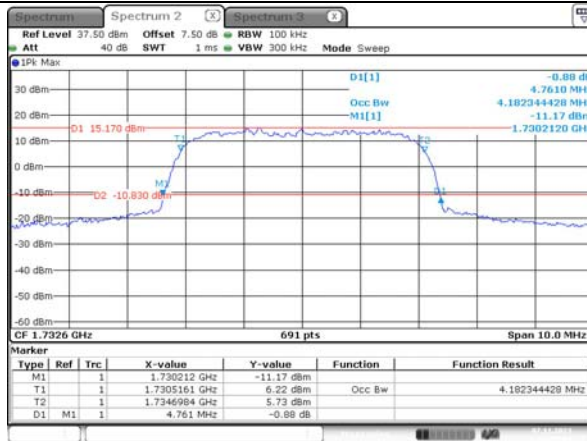
HSUPA

Lowest



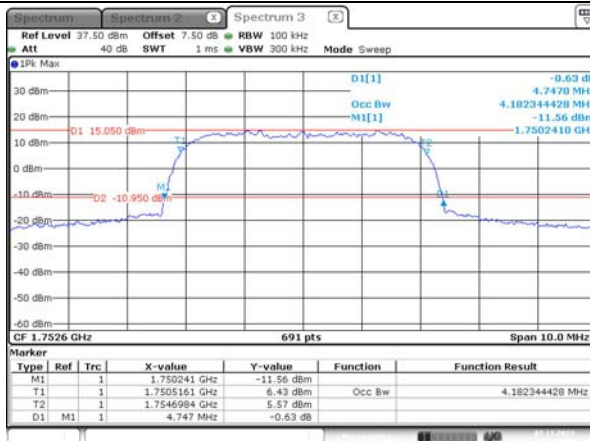
ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:51:02

Middle



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:55:24

Highest



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 22:58:53

Spurious Emissions at Antenna Terminal

Channel	WCDMA R99	
Lowest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -40.12 dBm 916.50 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:05:27</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -29.83 dBm 15.9440 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:05:02</p>
Middle	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -40.30 dBm 901.00 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:03:41</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -29.92 dBm 15.9720 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:04:16</p>
Highest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -39.42 dBm 610.50 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:02:52</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -29.76 dBm 17.7320 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 20.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:04:13</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:21:13</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:16:08</p>
HSDPA	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:20:35</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:16:53</p>
HSUPA	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:19:23</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 8.NOV.2023 20:17:53</p>

**4.5 Antenna Port Test Data and Results for WCDMA Band 5:**

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.1
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency:**

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	826.4	836.6	846.6



**Test Data:**

<b>RF Output Power</b>					
Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	21.78	22.02	<b>22.26</b>	13.02	38.45
HSDPA Subtest 1	21.71	21.72	22.22	12.98	38.45
HSDPA Subtest 2	21.57	21.66	22.06	12.82	38.45
HSDPA Subtest 3	21.44	21.73	21.82	12.58	38.45
HSDPA Subtest 4	21.44	21.83	21.92	12.68	38.45
HSUPA Subtest 1	21.42	21.87	21.67	12.63	38.45
HSUPA Subtest 2	21.34	21.88	21.68	12.64	38.45
HSUPA Subtest 3	21.26	21.45	21.32	12.21	38.45
HSUPA Subtest 4	21.21	21.74	21.78	12.54	38.45
HSUPA Subtest 5	21.17	21.67	21.23	12.43	38.45
DC-HSDPA Subtest 1	21.03	21.13	21.1	11.89	38.45
DC-HSDPA Subtest 2	20.87	20.97	21.23	11.99	38.45
DC-HSDPA Subtest 3	20.82	21.05	21.28	12.04	38.45
DC-HSDPA Subtest 4	20.65	20.92	20.91	11.68	38.45
HSPA+ Subtest 1	20.59	20.95	20.77	11.71	38.45

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.13	3.1	2.81	13
HSDPA	4.61	4.61	4.49	13
HSUPA	5.19	5.39	5.65	13

**Result:****Pass**

<b>Occupied Bandwidth</b>						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.168	4.168	4.168	4.732	4.747	4.732
HSDPA	4.182	4.197	4.182	4.732	4.718	4.732
HSUPA	4.182	4.197	4.182	4.732	4.732	4.747

Note: The test plots please refer to the Plots of Occupied Bandwidth

<b>Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

<b>Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>Frequency Stability</b>					
Test Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	0.29	0.000	2.5
	-20	3.91	9.11	0.011	2.5
	-10	3.91	8.51	0.010	2.5
	0	3.91	-7.15	-0.009	2.5
	10	3.91	-5.29	-0.006	2.5
	20	3.91	7.24	0.009	2.5
	30	3.91	-5.81	-0.007	2.5
	40	3.91	5.59	0.007	2.5
	50	3.91	6.87	0.008	2.5
Frequency Stability vs. Voltage	20	3.45	9.94	0.012	2.5
	20	4.5	9.99	0.012	2.5
				<b>Result:</b>	<b>Pass</b>



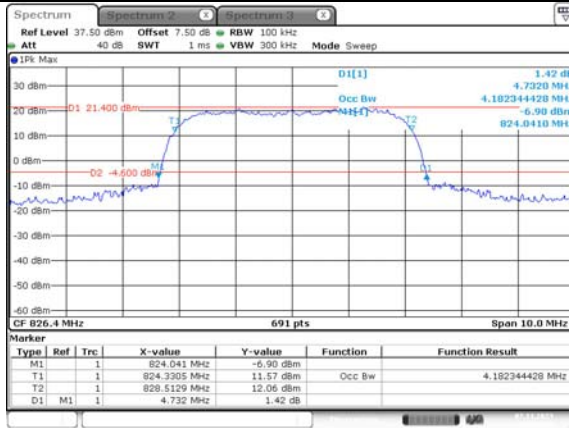


### Occupied Bandwidth

Channel

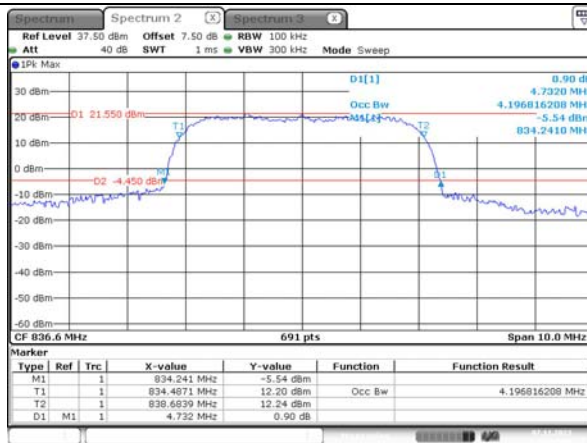
HSUPA

Lowest



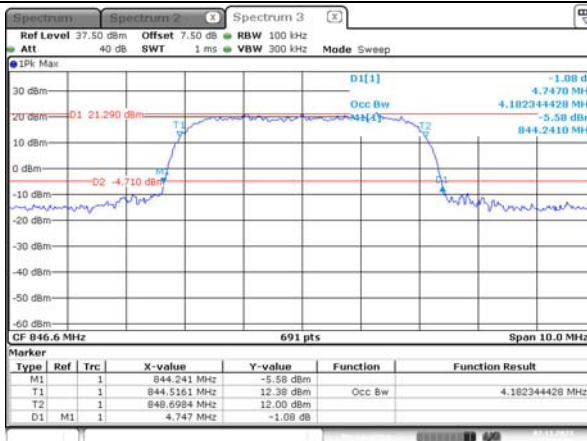
ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 23:51:38

Middle



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 23:54:28

Highest



ProjectNo.:CR231061271 Tester:One Luo  
Date: 7.NOV.2023 23:57:48

Spurious Emissions at Antenna Terminal

Channel	WCDMA R99	
Lowest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -10.08 dBm 470.10 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:14:47</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -25.35 dBm 5.8780 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:14:09</p>
Middle	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -39.92 dBm 449.00 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:12:31</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -24.77 dBm 5.8650 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:13:28</p>
Highest	<p>Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -31.53 dBm 828.00 MHz -13.000 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:11:23</p>	<p>Ref Level 36.00 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Sweep IPk Max M1[1] -24.85 dBm 6.7500 GHz -13.000 dBm Start 1.0 GHz 691 pts Stop 10.0 GHz ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 18:11:27</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
R99		
HSDPA		
HSUPA		

**4.6 Antenna Port Test Data and Results for LTE Band 2**

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.3
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1850.7	1880	1909.3
3MHz	1851.5	1880	1908.5
5MHz	1852.5	1880	1907.5
10MHz	1855	1880	1905
15MHz	1857.5	1880	1902.5
20MHz	1860	1880	1900

**Test Data:****RF Output Power**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	17.99	18.07	18.02	15.45	33
	RB1#3	17.8	18.06	<b>18.25</b>		
	RB1#5	17.7	17.93	18.2		
	RB3#0	17.62	17.61	17.69		
	RB3#3	17.53	17.62	17.88		
	RB6#0	17.35	17.56	17.44		
1.4MHz 16QAM	RB1#0	17.34	17.37	17.55	15.7	33
	RB1#3	17.21	17.21	17.4		
	RB1#5	17.05	17.47	17.62		
	RB3#0	17.04	17.41	17.61		
	RB3#3	17.99	<b>18.5</b>	18.09		
	RB6#0	17.86	18.12	18.15		
3MHz QPSK	RB1#0	17.83	18.04	18.06	15.37	33
	RB1#8	17.74	18.16	17.94		
	RB1#14	17.59	17.91	17.62		
	RB6#0	17.59	18.14	<b>18.17</b>		
	RB6#9	17.56	17.55	17.76		
	RB15#0	17.46	17.96	18.02		
3MHz 16QAM	RB1#0	17.38	17.35	17.83	15.73	33
	RB1#8	17.24	17.25	17.7		
	RB1#14	17.99	<b>18.53</b>	18.16		
	RB6#0	17.91	18.18	17.93		
	RB6#9	17.79	17.75	18.26		
	RB15#0	17.76	18.21	18.11		
5MHz QPSK	RB1#0	17.64	17.89	<b>17.98</b>	15.18	33
	RB1#13	17.49	17.71	17.61		
	RB1#24	17.39	17.45	17.77		
	RB15#0	17.35	17.36	17.62		
	RB15#10	17.27	17.41	17.69		
	RB25#0	17.16	17.69	17.69		
5MHz 16QAM	RB1#0	17.99	17.97	<b>18.44</b>	15.64	33
	RB1#13	17.84	18.31	<b>18.44</b>		
	RB1#24	17.72	17.7	18.3		
	RB15#0	17.64	17.82	18.23		
	RB15#10	17.59	18.09	18.06		
	RB25#0	17.45	17.95	17.61		
10MHz QPSK	RB1#0	17.29	17.63	17.41	15.75	33
	RB1#25	17.27	17.42	17.65		

	RB1#49	17.22	17.24	17.68		
	RB25#0	17.1	17.51	17.37		
	RB25#25	17.99	18.26	<b>18.55</b>		
	RB50#0	17.86	18.28	18		



10MHz 16QAM	RB1#0	17.72	17.68	17.94	15.22	33
	RB1#25	17.7	17.85	17.85		
	RB1#49	17.65	18.01	<b>18.02</b>		
	RB25#0	17.58	17.72	17.93		
	RB25#25	17.47	17.86	17.58		
	RB50#0	17.31	17.52	17.8		
15MHz QPSK	RB1#0	17.15	17.16	17.67	15.6	33
	RB1#38	17.14	17.34	17.44		
	RB1#74	17.99	18.38	18.26		
	RB36#0	17.87	<b>18.4</b>	17.89		
	RB36#39	17.75	18.08	18.33		
	RB75#0	17.72	17.99	18.21		
15MHz 16QAM	RB1#0	17.71	18.08	17.86	15.29	33
	RB1#38	17.59	17.99	<b>18.09</b>		
	RB1#74	17.51	17.86	17.97		
	RB36#0	17.33	17.67	17.7		
	RB36#39	17.21	17.45	17.43		
	RB75#0	17.03	17.5	17.61		
20MHz QPSK	RB1#0	17.99	18.06	18.15	15.55	33
	RB1#50	17.8	17.86	17.92		
	RB1#99	17.99	18.21	<b>18.35</b>		
	RB50#0	17.82	18.35	18.03		
	RB50#50	17.62	17.64	17.78		
	RB100#0	17.42	17.93	17.42		
20MHz 16QAM	RB1#0	17.41	17.52	<b>17.87</b>	15.07	33
	RB1#50	17.29	17.39	17.72		
	RB1#99	17.25	17.46	17.49		
	RB50#0	17.16	17.12	17.69		
	RB50#50	16.97	16.97	17.49		
	RB100#0	16.84	17.07	17.42		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Result:**

**Pass**

### Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.8	6.06	6.2	13
	RB100#0	4.2	4.46	4.23	13
20MHz 16QAM	RB1#0	6.14	6.61	7.25	13
	RB100#0	5.88	6	5.91	13
				<b>Result:</b>	<b>Pass</b>



<b>Occupied Bandwidth</b>						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.102	1.102	1.096	1.308	1.284	1.284
1.4MHz 16QAM	1.096	1.096	1.102	1.284	1.284	1.302
3MHz QPSK	2.683	2.695	2.683	2.916	2.928	2.94
3MHz 16QAM	2.671	2.683	2.683	2.952	2.94	2.94
5MHz QPSK	4.511	4.511	4.511	4.92	4.92	4.92
5MHz 16QAM	4.511	4.511	4.511	4.9	4.94	4.96
10MHz QPSK	8.942	8.942	8.942	9.6	9.68	9.6
10MHz 16QAM	8.942	8.942	8.942	9.64	9.64	9.64
15MHz QPSK	13.413	13.473	13.473	14.58	14.64	14.58
15MHz 16QAM	13.533	13.533	13.473	14.52	14.64	14.58
20MHz QPSK	17.964	17.884	17.884	19.52	19.12	19.2
20MHz 16QAM	17.964	17.964	17.964	19.28	19.28	19.2

Note: The test plots please refer to the Plots of Occupied Bandwidth

#### Spurious Emissions at Antenna Terminal

<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>
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#### Out of band emission, Band Edge

<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>
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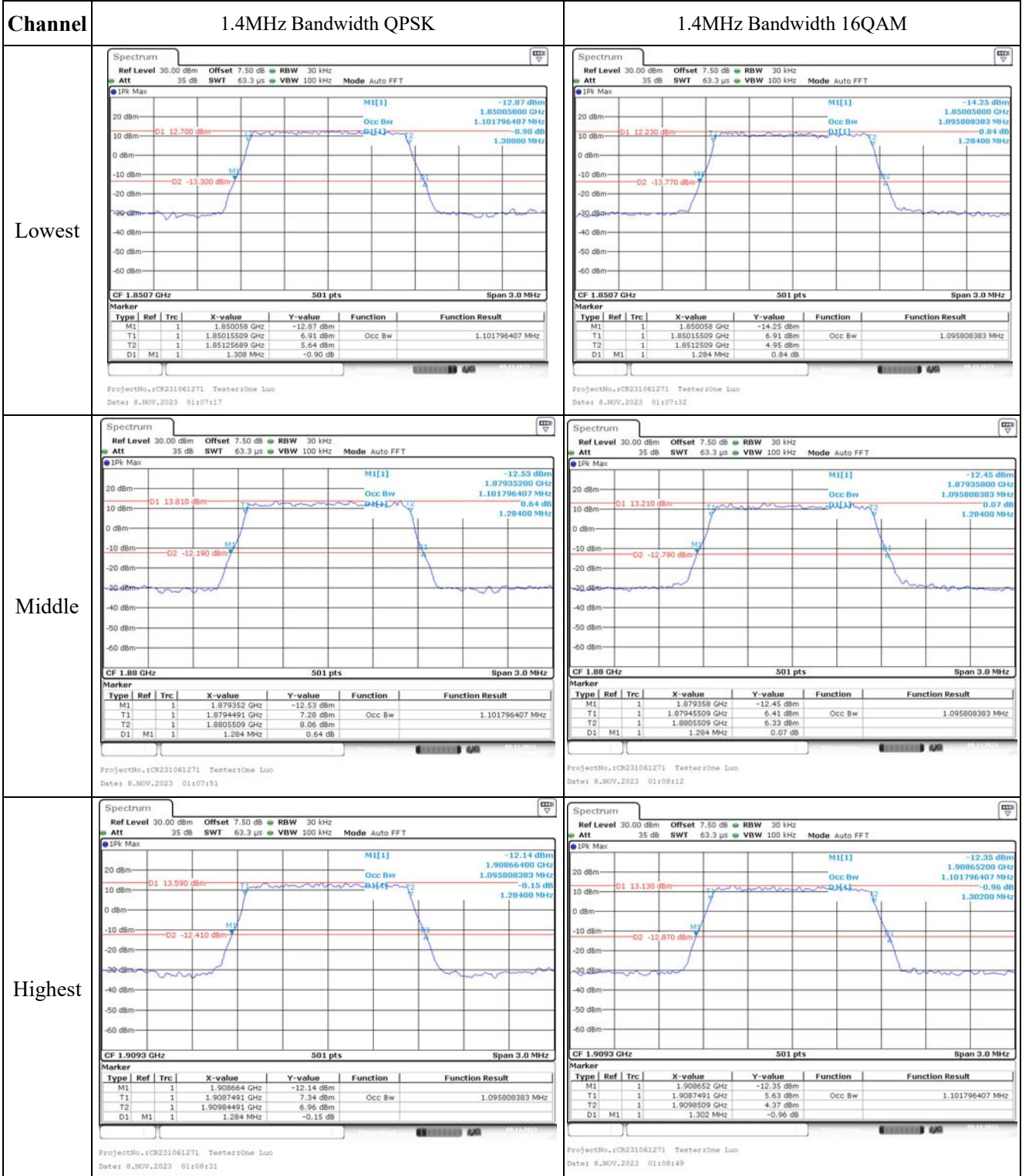
#### Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1851.059	1850.000	1908.961	1910.000
	-20	3.91	1851.001	1850.000	1908.951	1910.000
	-10	3.91	1851.022	1850.000	1908.923	1910.000
	0	3.91	1851.007	1850.000	1908.998	1910.000
	10	3.91	1851.097	1850.000	1908.926	1910.000
	20	3.91	1851.058	1850.000	1908.942	1910.000
	30	3.91	1851.072	1850.000	1908.976	1910.000
	40	3.91	1851.062	1850.000	1908.933	1910.000
	50	3.91	1851.002	1850.000	1908.926	1910.000
Frequency Stability vs. Voltage	20	3.45	1851.006	1850.000	1908.931	1910.000
	20	4.5	1851.100	1850.000	1908.973	1910.000
					<b>Result:</b>	<b>Pass</b>

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1851.011	1850.000	1908.964	1910.000
	-20	3.91	1851.091	1850.000	1908.911	1910.000
	-10	3.91	1851.089	1850.000	1908.903	1910.000
	0	3.91	1851.055	1850.000	1908.951	1910.000
	10	3.91	1851.055	1850.000	1908.996	1910.000
	20	3.91	1851.058	1850.000	1908.942	1910.000
	30	3.91	1851.041	1850.000	1908.965	1910.000
	40	3.91	1851.017	1850.000	1908.905	1910.000
	50	3.91	1851.076	1850.000	1908.904	1910.000
Frequency Stability vs. Voltage	20	3.45	1851.051	1850.000	1908.987	1910.000
	20	4.5	1851.035	1850.000	1908.915	1910.000
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



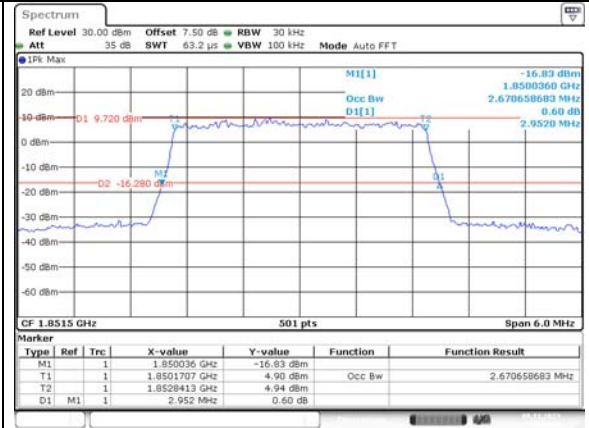
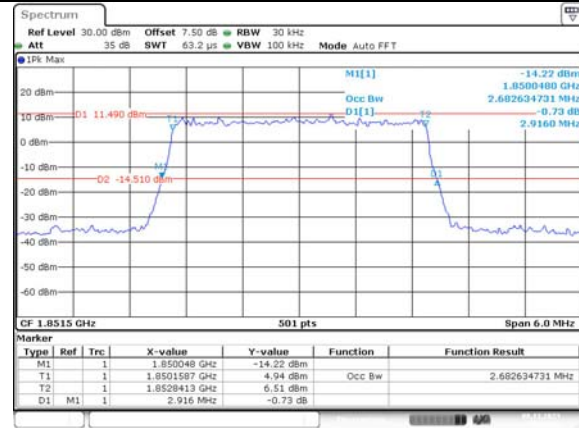
### Occupied Bandwidth

Channel

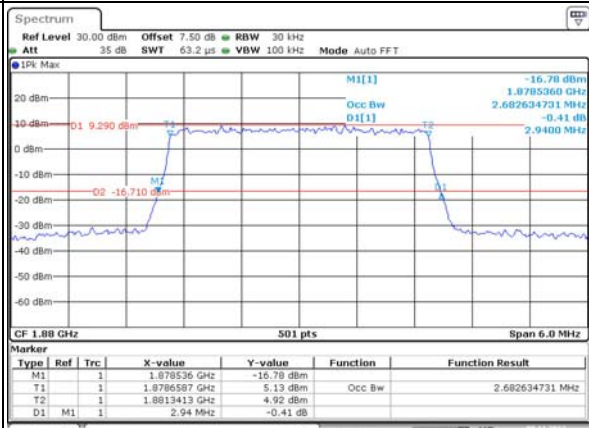
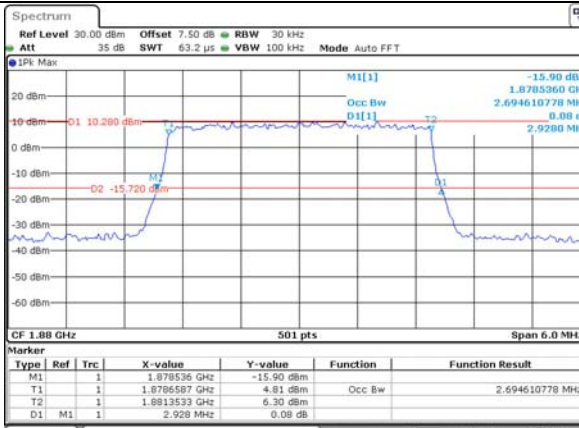
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

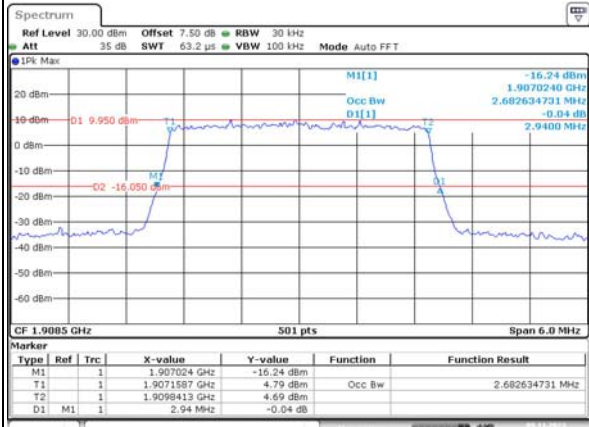
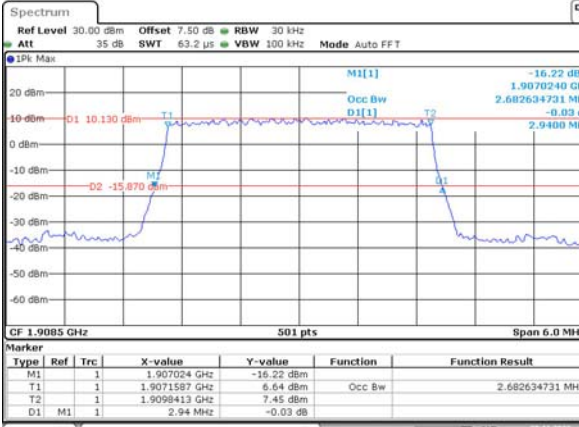
Lowest



Middle



Highest



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:45:27</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:45:34</p>
Middle	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:46:10</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:46:34</p>
Highest	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:47:02</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 8.NOV.2023 01:47:33</p>



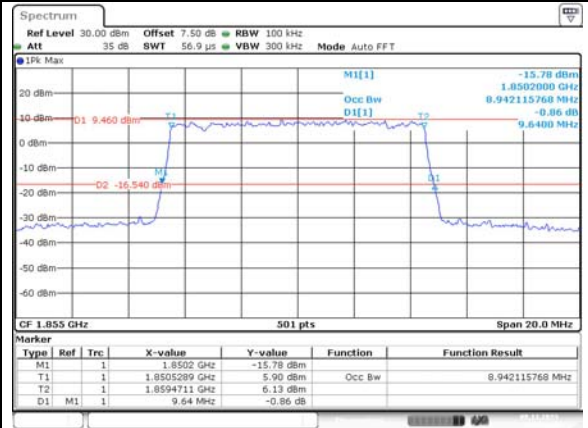
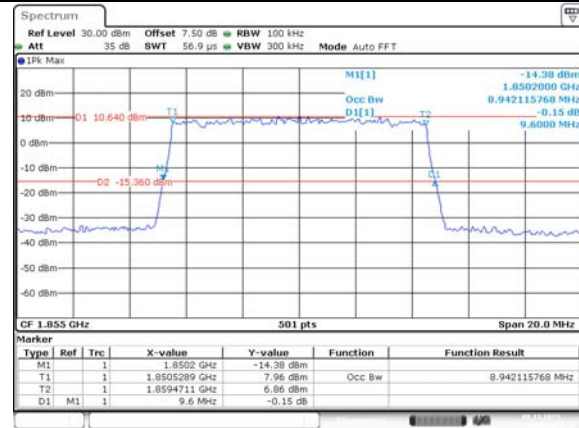
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

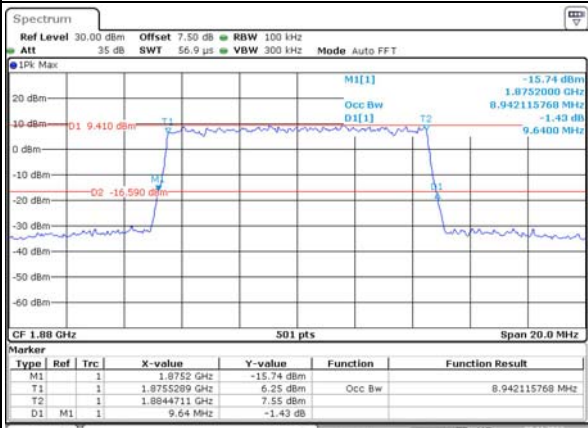
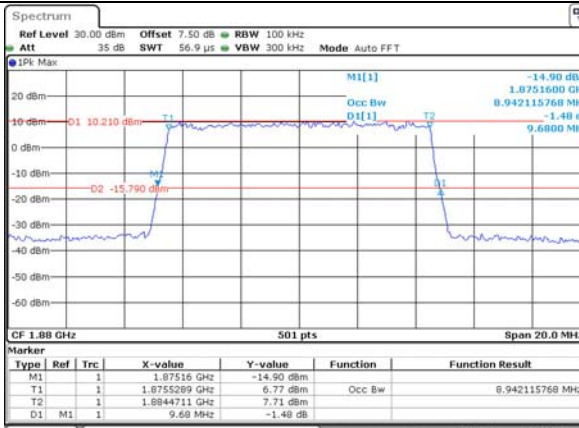
Lowest



ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:49:16

ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:49:44

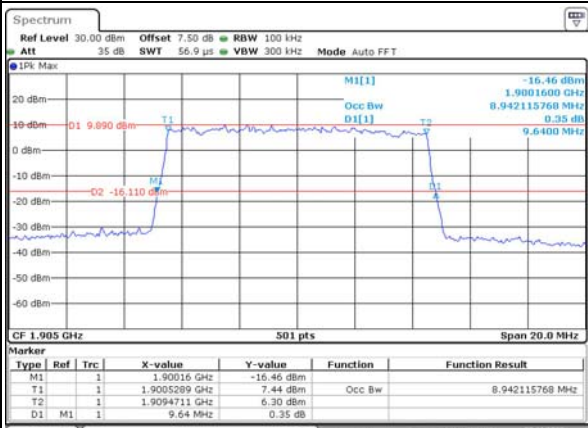
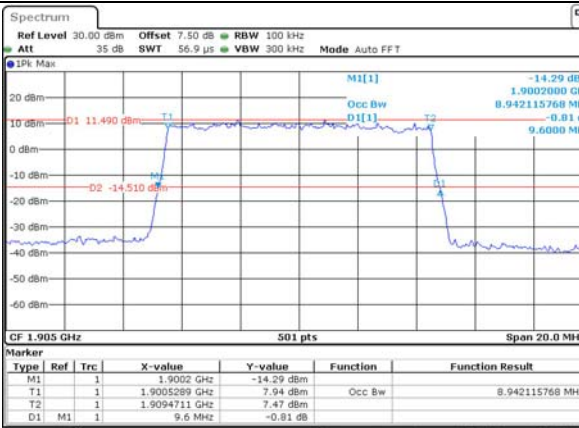
Middle



ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:50:16

ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:50:40

Highest



ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:51:09

ProjectNo.:CR231061271 Testers:One Luo  
Date: 8.NOV.2023 01:51:34

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM																																																																						
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Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.8904 GHz</td> <td>-12.00 dBm</td> <td></td> <td>1.89040000 GHz</td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.8910579 GHz</td> <td>8.18 dBm</td> <td>Occ Bw</td> <td>17.884231537 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.9089421 GHz</td> <td>7.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.2 MHz</td> <td>-0.25 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.8904 GHz	-12.00 dBm		1.89040000 GHz	T1	1		1.8910579 GHz	8.18 dBm	Occ Bw	17.884231537 MHz	T2	1		1.9089421 GHz	7.31 dBm			D1	M1	1	19.2 MHz	-0.25 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.8904 GHz</td> <td>-15.47 dBm</td> <td></td> <td>1.89040000 GHz</td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.890978 GHz</td> <td>7.11 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.9089421 GHz</td> <td>6.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.2 MHz</td> <td>1.06 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.8904 GHz	-15.47 dBm		1.89040000 GHz	T1	1		1.890978 GHz	7.11 dBm	Occ Bw	17.964071856 MHz	T2	1		1.9089421 GHz	6.41 dBm			D1	M1	1	19.2 MHz	1.06 dB		
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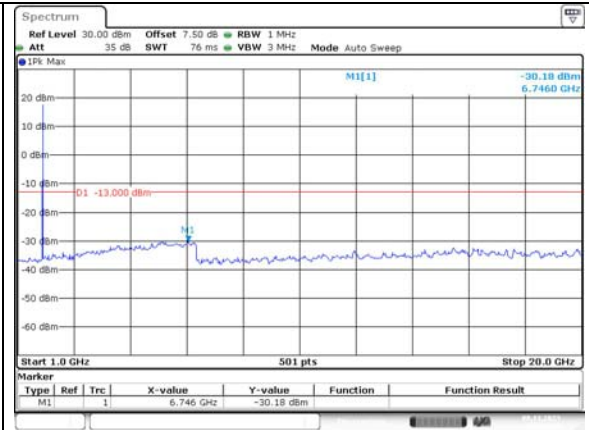
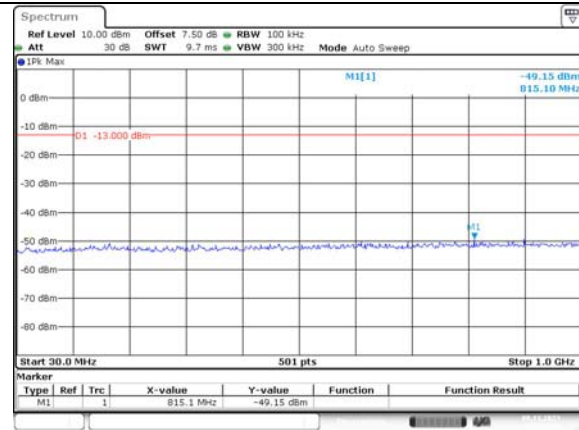


Spurious Emissions at Antenna Terminal

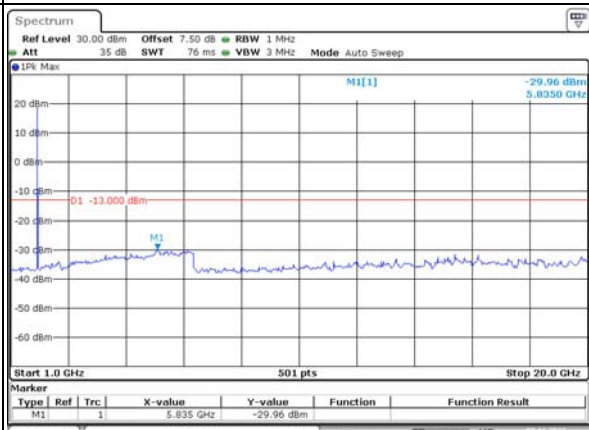
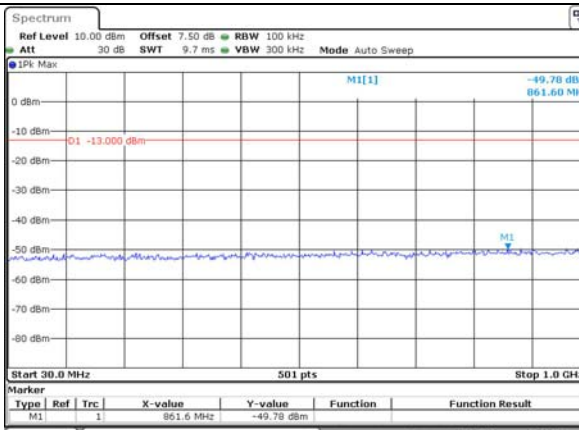
Channel

1.4MHz Bandwidth QPSK

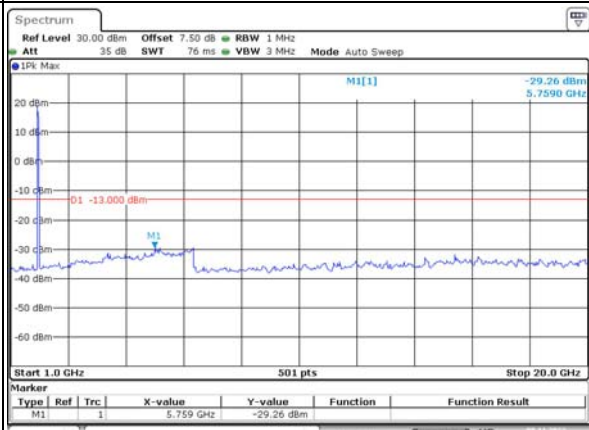
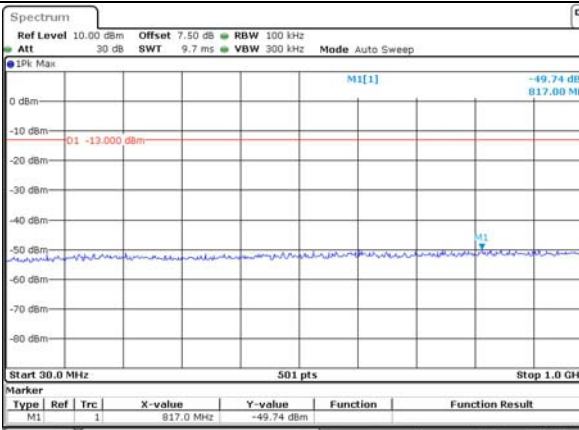
Lowest



Middle



Highest

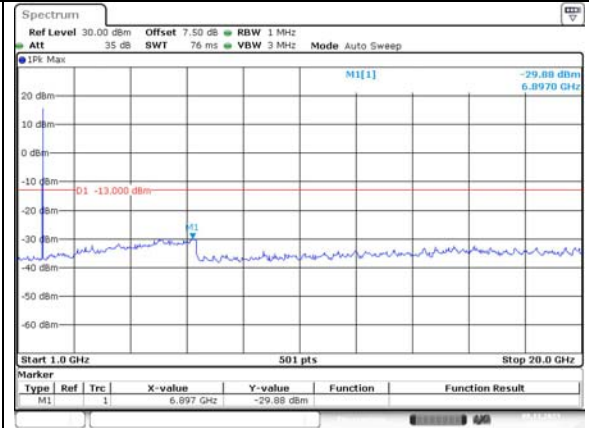
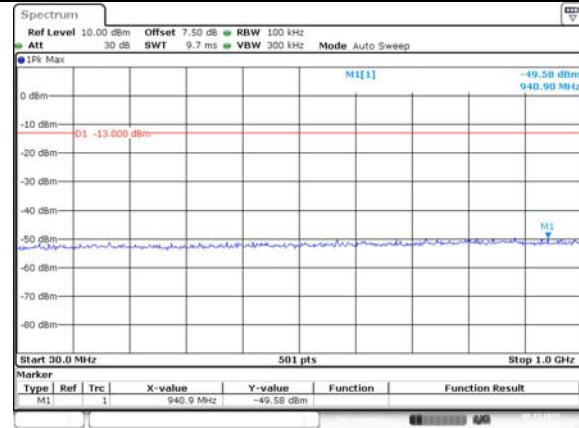


Spurious Emissions at Antenna Terminal

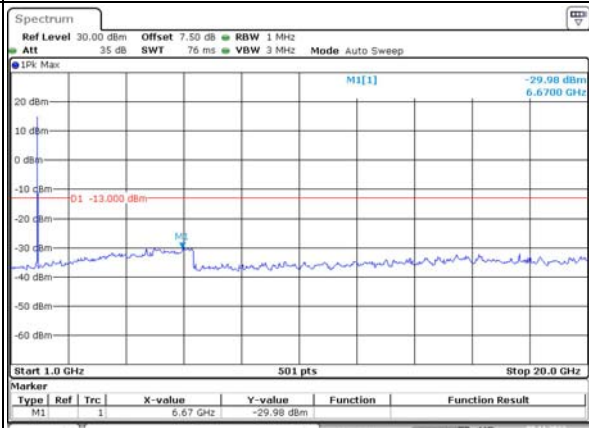
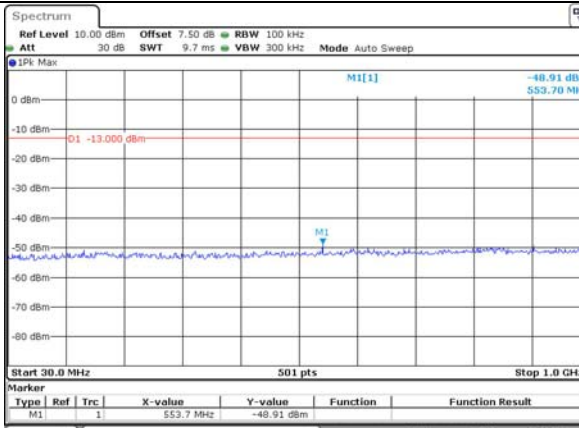
Channel

3MHz Bandwidth QPSK

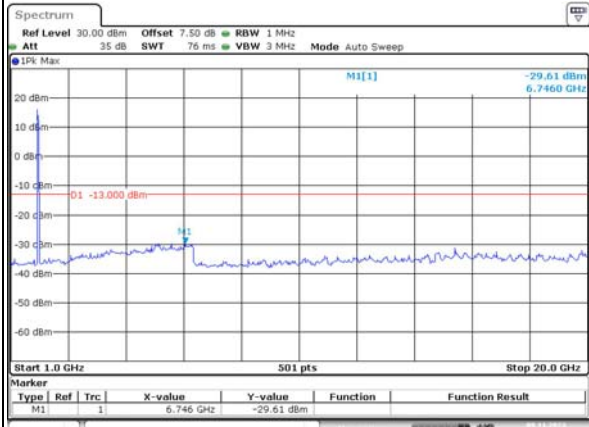
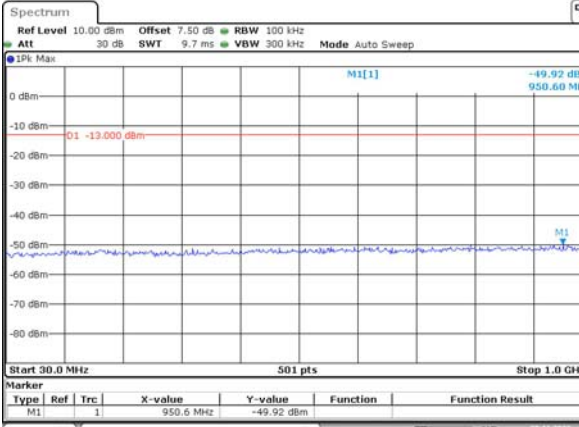
Lowest



Middle



Highest

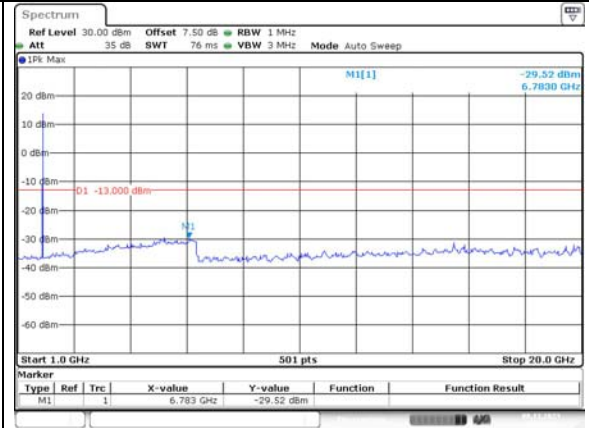
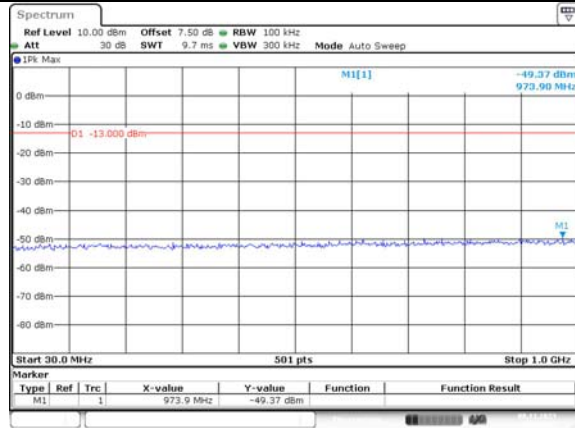


### Spurious Emissions at Antenna Terminal

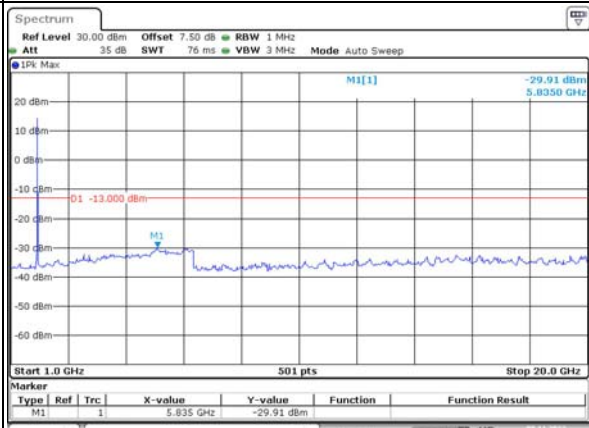
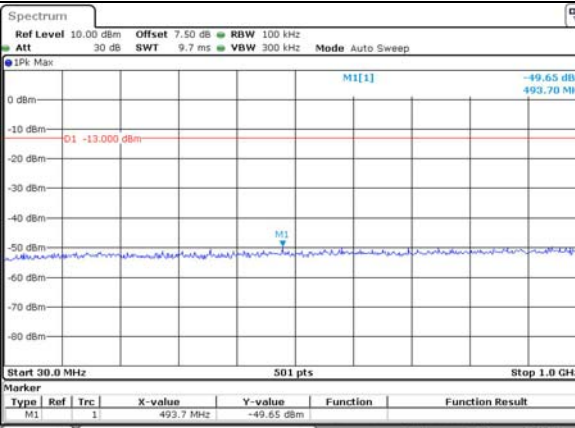
Channel

5MHz Bandwidth QPSK

Lowest



Middle



Highest

