



TEST REPORT

Applicant:	Inrico Technologies Co.,Ltd
Address:	A1703, Shenzhen National Engineering Laboratory Building, No. 20 Gaoxin South 7th Road , Shenzhen, China
FCC ID:	2AIV6-IRC100
Product Name:	Hybrid RSM
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 KDB 971168 D01 Power Meas License Digital Systems v03r01

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:	CR231164493-00F
Date Of Issue:	2024/1/19
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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.

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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
1.0	CR231164493-00F	Original Report	2024/1/19	

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Hybrid RSM
EUT Model:	IRC100
	GPRS/EDGE: 850/1900
Operation Bands and modes:	WCDMA: Band 2/4/5
	LTE: Band 2/4/5/7/12/17/38/66
Modulation Type:	GMSK,8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.8V from Battery or DC 5.0V from Adapter /Charger Base
	Radiation Spurious Emissions test: 2D1L-1
Serial Number:	RF Conducted test: 2D1L-2
EUT Received Date:	2023/11/3
EUT Received Status:	Good

Operation Voltage (V_{DC}) \blacktriangle :

Lowest: 3.2 Norma	: 3.8	Highest:	4.4
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Transmission Antenna Information▲:

Antenna	Antenna Manufacturer	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(G _T) (dBi)	Lc (dB)				
			GSM850	824-849	-0.3	N/A				
			PCS1900	1850-1910	2.2	N/A				
			WCDMA B2	1850-1910	2.2	N/A				
			WCDMA B4	1710-1755	2.3	N/A				
	Shenzhen		WCDMA B5	824-849	-0.3	N/A				
	Hengxiangtong		LTE B2	1850-1910	2.2	N/A				
Main	Antenna Technology	PIFA	PIFA	PIFA	PIFA	PIFA	LTE B4	1710-1755	2.3	N/A
			LTE B5	824-849	-0.3	N/A				
	CO.,LTD		LTE B7	2500-2570	3.2	N/A				
				LTE B12	699-716	-5.26	N/A			
					LTE B17	704-716	-5.5	N/A		
			LTE B38	2570-2620	3.2	N/A				
			LTE B66	1710-1785	2.4	N/A				
Note: Lc= Signa	l Attenuation in the	connecting ca	ble between the tran	smitter and antenna, in	dB.					

Accessory Information:

Accessory Description	" Manutaettirer		Parameters	
Adapter	ShenZhen HuaJin Electronics CO.,LTD	HJ-0502000W2-US	Input: 100-240V~50/60Hz 0.3A Output: 5.0V 2000mA	
Charger Base	Unknown	Unknown	Unknown	

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

1.2.1 EUT Operation Condition:	The system was configured for testing in each operation
EUT Operation Mode:	mode.
	Per BLE report test, test with Powered by Adapter was the worst.
Equipment Modifications:	No
EUT Exercise Software:	No
The maximum power was configured per	3GPP Standard for each operation modes as below setting:
GPRS/EGPRS	
Network Support > GPRS orEGSM Main Service > Packet Data Service selection > Test Mode A – Auto S MS Signal Press Slot Config Botto slots and power setting > Slot configuration > Uplink/ > 33 dBm for GPRS 850 > 30 dBm for GPRS 1900 > 27 dBm for EGPRS 850 > 26 dBm for EGPRS 1900	ferent menus tings off the signal and change settings lot Config. off om on the right twice to select and change the number of time
	d to adjust if link is not stable) channel [Enter the same channel number for TCH channel (test
Channel Type > P0 >Off 4 dBSlot Config > TCH > Hopping > Main Timeslot >Unchanged (if alr choose desired test Off 3 Coding Scheme >	
	eam offsets for Ext. Att. Output and Ext. Att. Input o 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.

34.121-1 spe	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA			
	Subset	1	2		4	5			
	Loopback Mode	Test Mode 1							
	Rel99 RMC	12.2kbps RMC							
	HSDPA FRC	H-Set1							
	HSUPA Test	HSUPA Loopback							
	Power Control	Algorithm2							
WCDMA	Algorithm		_						
General	βc	11/15	6/15	15/15	2/15	15/15			
Settings	βd	15/15	15/15	9/15	15/ 5	0			
	βec	209/225	12/15	30 15	2/15	5/15			
	βc/ βd	11/15	6/15	15/9	2/15	-			
	βhs	22/15	12/15	30/15	4/15	5/15			
	CM(dB)	1.0	3.0	2.0	3.0	1.0			
	PR(dB)	0	2	1	2	0			
	DACK			8					
	DNAK			8					
IICDDA	DCQI	8							
HSDPA Specific	Ack-Nack repetition	3							
Settings	factor	5							
Settings	CQI Feedback	4ms							
	CQI Repetition Factor			2					
	Ahs=βhs/ βc			30/15					
	DE-DPCCH	6	8	8	5	7			
	DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	21			
	ETFCI	75	67	92	71	81			
	Associated Max UL	242.1	174.9	482.8	205.8	308.9			
	Data Rate k ps	242.1	174.9	402.0	205.0	500.7			
		E-TEC	XI 11 E	E-TFCI	E-TEC	CI 11 E			
		-		11					
HSUPA			E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18		E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18				
Specific									
Settings		E-TF		PO4 E-TFCI		CI 71			
	Reference E_FCl		E-TFCI PO23 E-TFCI 75		E-TFCI PO23 E-TFCI 75				
			I PO26	E-TFCI PO 18	E-TFCI PO26 E-TFCI 81				
		E-TF							
		E-TFC	I PO 27		E-TFC	I 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	1
OPSK	>5	>4	>8	> 12	>16	> 18	≤1
16 QAM	≤5	54	≤8	≤ 12	s 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".

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N _{RS})	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
			3	>5	≲1
			5	>6	≤ 1
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	10	>6	≤ 1
	5		15	>8	≤1
			20	>10	s 1
		41	5	>6	s 1
NS_04	6.6.2.2.2	41	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 6.6.3.3.2		13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤1 ≤2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23'	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
**					
NS_32					

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

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LTE(TDD):

		lormal cyclic prefix in do		Extended cyclic prefix in downlink			
Special subframe	DwPTS	UpPTS		DwPTS	UpPTS		
configuration		Normal cyclic prefix	Extended cyclic		Normal cyclic	Extended cyclic	
		in uplink	prefix in uplink		prefix in uplink	prefix in uplink	
0	$6592 \cdot T_s$			$7680 \cdot T_s$			
1	$19760 \cdot T_s$	$2192 \cdot T_{\rm s}$		$20480 \cdot T_s$	$2192 \cdot T_{e}$	2560 · T.	
2	$21952 \cdot T_s$		$2560 \cdot T_s$	$23040 \cdot T_s$	2152-13	2500·1 _s	
3	$24144 \cdot T_s$			$25600 \cdot T_s$			
4	$26336 \cdot T_s$			$7680 \cdot T_s$			
5	$6592 \cdot T_s$			$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	
6	$19760 \cdot T_s$			$23040 \cdot T_s$			
7	$21952 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$12800 \cdot T_{s}$			
8	$24144 \cdot T_s$			-	-	-	
9	$13168 \cdot T_{s}$			-	-	-	

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-	Subframe number									
configuration	Uplink Switch- point periodicity	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-to-		Subframe Number						Calculated			
Downlink Configuration	Uplink Switch- point Periodicity	0	1	2	3	4	5	6	7	8	9	Duty Cycle (%)
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	υ	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_s) x # of S + # of U

 $\label{eq:constraint} \begin{array}{l} \underline{Example \ for \ Calculated \ Duty \ Cycle \ for \ Uplink-Downlink \ Configuration \ 0:} \\ \hline Calculated \ Duty \ Cycle \ = \ 5120 \ x \ [1/(15000 \ x \ 2048)] \ x \ 2 \ + \ 6 \ ms \ = \ 63.33\% \\ \hline where \\ \hline T_s \ = \ 1/(15000 \ x \ 2048) \ seconds \end{array}$

1.2.2 Support Equipment List and Details

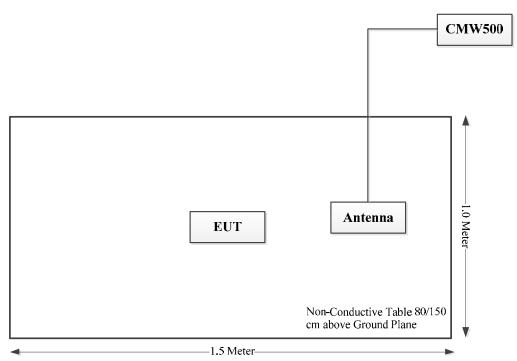
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	149218
Unknown	Antenna	Unknown	Unknown

1.2.3 Support Cable List and Details

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

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℃				
Humidity	±5%				
DC and low frequency voltages	$\pm 0.4\%$				
Duty Cycle	1%				
RF Frequency	$\pm 0.082 \times 10^{-6}$				

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

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.

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20	20	50
50 to 450	5	5	50
450 to 512	2.5	5	5
821 to 896	1.5	2.5	2.5
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

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

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 log₁₀ (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 that $43 + 10 \log (P) dB$ 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.

3.3.4 PAR

FCC §27.50

(d) 5)

Equipment employed must be authorized in accordance with the provisions of § 24.51. 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 (d)(6) of this section. 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.

3.4 Test Method:

3.4.1 Transmitter output power, e.r.p. and e.i.r.p

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5 and KDB 971168 D01 Power Meas License Digital Systems v03r01:

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

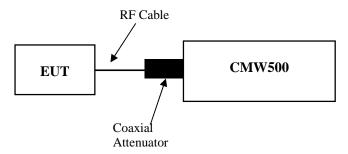
ERP or EIRP = $P_{Meas} + G_T - L_C$

where:

 $\begin{array}{ll} \text{ERP or EIRP} = \text{effective radiated power or equivalent isotropically radiated power, respectively} \\ & (\text{expressed in the same units as } P_{\text{Meas}}, \text{typically dBW or dBm}); \\ P_{\text{Meas}} & = \text{measured transmitter output power or PSD, in dBm or dBW}; \\ G_{\text{T}} & = \text{gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);} \end{array}$

 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 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 $1.5 \times OBW$ 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 $\ge 3 \times RBW$.

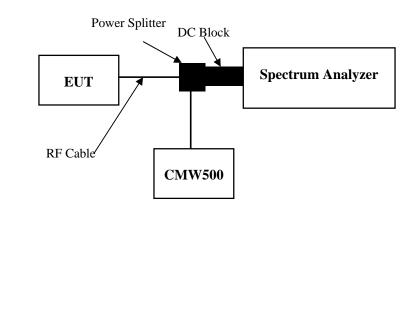
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

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:

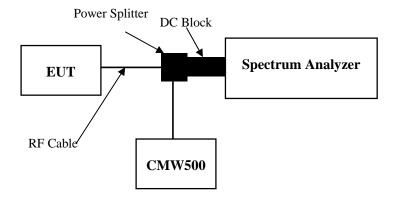


3.4.3 Transmitter unwanted emissions-at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4, KDB 971168 D01 Power Meas License Digital Systems v03r01:

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),8 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:

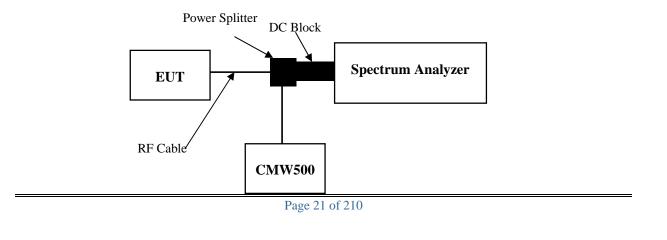


3.4.4 Transmitter unwanted emissions-Out of band emission

According to ANSI C63.26-2015 Section 5.7.3, KDB 971168 D01 Power Meas License Digital Systems v03r01:

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, KDB 971168 D01 Power Meas License Digital Systems v03r01:

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:

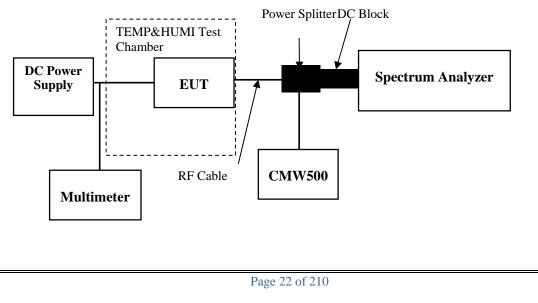
a) At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, and

b) At +20 °C temperature and $\pm 15\%$ 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 Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

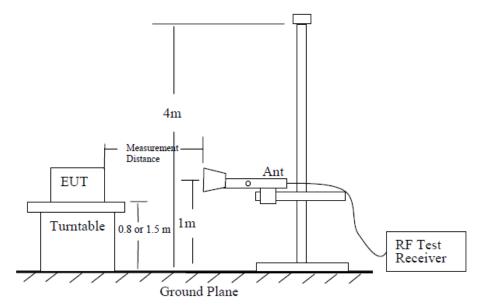
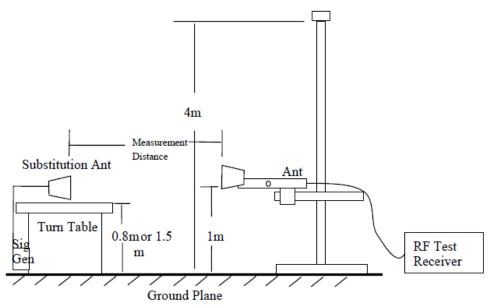


Figure 6—Test site-up for radiated ERP and/or EIRP measurements





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:
 - 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.
 - 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)]:
 - Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - 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).
- 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:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

- Pe = equivalent emission power in dBm
- Ps = 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: gain (dBd) = gain (dBi) - 2.15 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:	2D1L-2	Test Date:	2023/12/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:							
Temperature: (℃)	22.9	Relative Humidity: (%)	31	ATM Pressure: (kPa)	101.8		

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)			
GPRS	824.2	836.6	848.8			
EDGE	824.2	836.6	848.8			

Test Data:

RF Output Power							
	Conducted	Peak Output P	ower(dBm)	Maximum			
Test Mode	Lowest Channel	Middle Channel	Highest Channel	ERP (dBm)	ERP Limit (dBm)		
GPRS 1 Slot	31.66	31.41	31.46	29.21	38.45		
GPRS 2 Slots	29.73	29.4	29.51	27.28	38.45		
GPRS 3 Slots	27.8	27.39	27.5	25.35	38.45		
GPRS 4 Slots	25.86	25.3	25.58	23.41	38.45		
EDGE 1 Slot	27.66	27.36	27.37	25.21	38.45		
EDGE 2 Slots	25.6	25.37	25.36	23.15	38.45		
EDGE 3 Slots	23.52	23.41	23.4	21.07	38.45		
EDGE 4 Slots	21.55	21.48	21.3	19.1	38.45		
Note: ERP= Conducted Power(dBm) - $Lc(dB) + Gr(dBd)$ Gr(dBd)=Gr(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		
GPRS	0.245	0.245	0.246	0.316	0.313	0.314		
EDGE	0.256	0.255	0.249	0.323	0.331	0.317		
Note: The test pl	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.

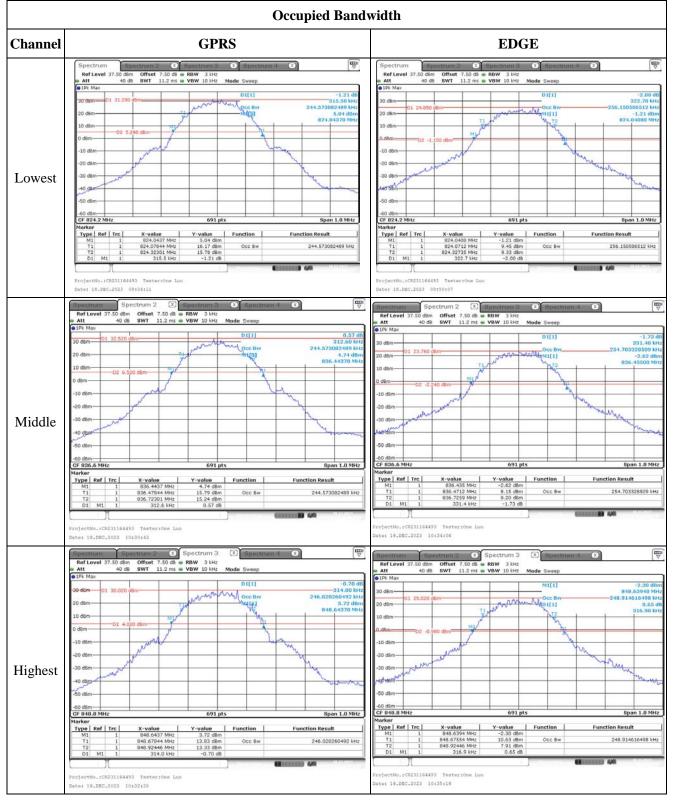
Out of band emission, Band Edge

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

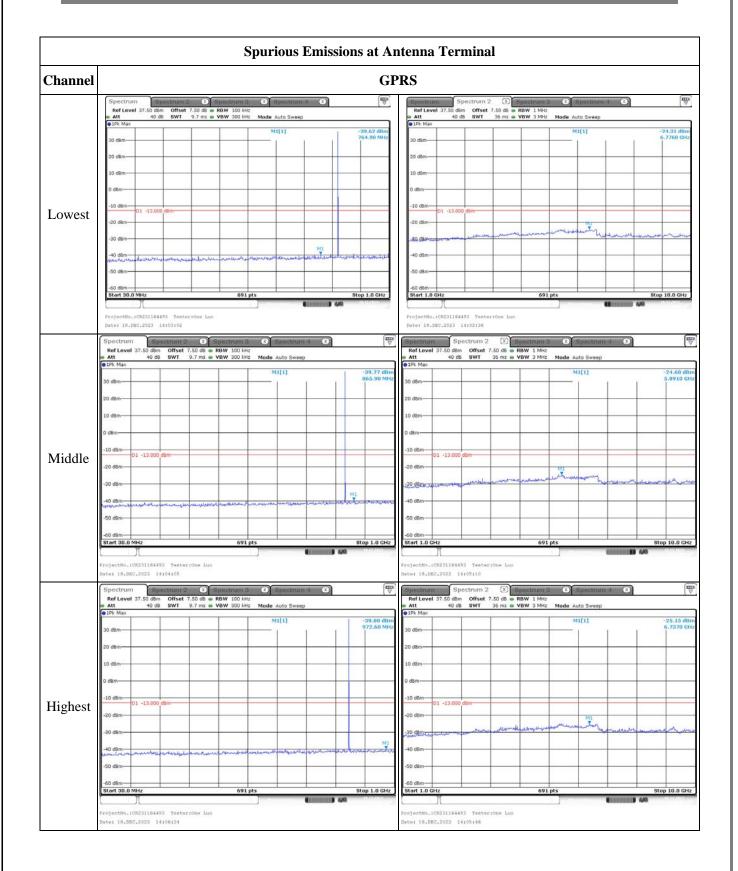
Frequency Stability					
Test Modulation:	GM	GMSK		836.6	MHz
Test Item	Temperature	Voltage	Frequen	cy Error	Limit
Test Item	(°C)	(VDC)	(Hz)	(ppm)	(ppm)
	-30	3.8	-6.24	-0.007	2.5
	-20	3.8	-7.53	-0.009	2.5
	-10	3.8	-7.8	-0.009	2.5
	0	3.8	8.82	0.011	2.5
Frequency Stability vs. Temperature	10	3.8	-7.19	-0.009	2.5
Temperature	20	3.8	6.69	0.008	2.5
	30	3.8	-7.11	(ppm) -0.007 -0.009 -0.009 0.011 -0.009	2.5
	40	3.8	-9.97	-0.012	2.5
	50	3.8	-8.77	-0.010	2.5
Frequency Stability vs.	20	3.2	6.12	0.007	2.5
Voltage	20	4.4	7.05	0.008	2.5
				Result:	Pass

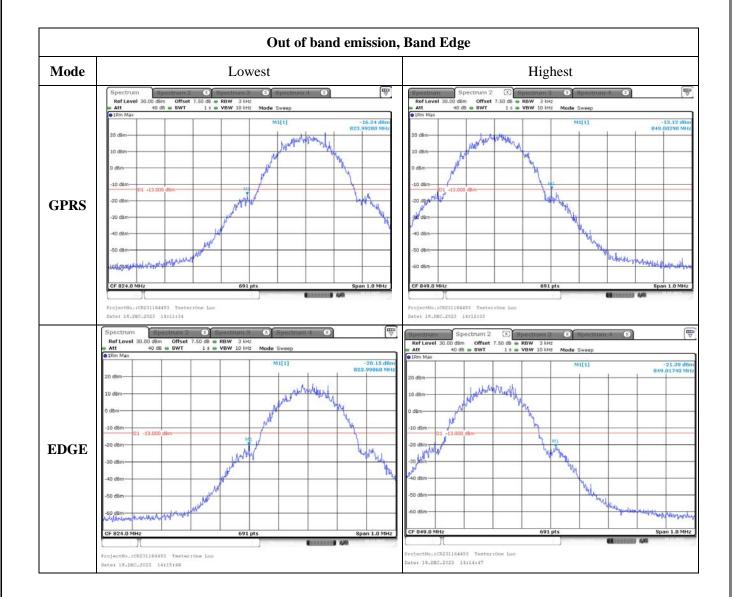
Test Modulation:	8P	SK	Test Channel:	836.6	MHz
Test Item	Temperature	Voltage	Frequen	cy Error	Limit
Test item	(°C)	(Vdc)	(Hz)	(ppm)	(ppm)
	-30	3.8	-6.82	-0.008	2.5
	-20	3.8	-5.79	-0.007	2.5
	-10	3.8	-7.69	-0.009	2.5
	0	3.8	-9.71	-0.012	2.5
Frequency Stability vs. Temperature	10	3.8	-7.72	-0.009	2.5
Temperature	20	3.8	5.04	0.006	2.5
	30	3.8	-8.52	-0.010	2.5
	40	3.8	-5.96	-0.007	2.5
	50	3.8	-5.35	-0.006	2.5
Frequency Stability vs.	20	3.2	-6.8	-0.008	2.5
Voltage	20	4.4	9.26	0.011	2.5
			•	Result:	Pass

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



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	ore rese Data and Results		
Serial Number:		Test Date:	2023/12/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

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

Environmental Conditions:						
Temperature: (°C)	22.9	Relative Humidity: (%)	31	ATM Pressure: (kPa)	101.8	

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)			
GPRS	1850.2	1880	1909.8			
EDGE	1850.2	1880	1909.8			

Test Data:

	Conducted	Conducted Peak Output Power(dBm)			EIRP Limit	
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	(dBm)	
GPRS 1 Slot	29.18	29.64	29.34	31.84	33	
GPRS 2 Slots	27.12	27.6	27.37	29.8	33	
GPRS 3 Slots	25.04	25.56	25.47	27.76	33	
GPRS 4 Slots	23.1	23.46	23.46	25.66	33	
EDGE 1 Slot	27.25	27.39	27.38	29.59	33	
EDGE 2 Slots	25.31	25.4	25.29	27.6	33	
EDGE 3 Slots	23.32	23.36	23.23	25.56	33	
EDGE 4 Slots	21.36	21.33	21.25	23.56	33	
Note: EIRP=Conducted Power(dBm) - $Lc(dB) + GT(dBi)$						
				Result:	Pass	

Occupied Bandwidth

Occupied Danuwidth							
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)			
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel	
GPRS	0.243	0.245	0.242	0.314	0.314	0.313	
EDGE	0.26	0.262	0.265	0.331	0.333	0.342	
Note: The test pl	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.

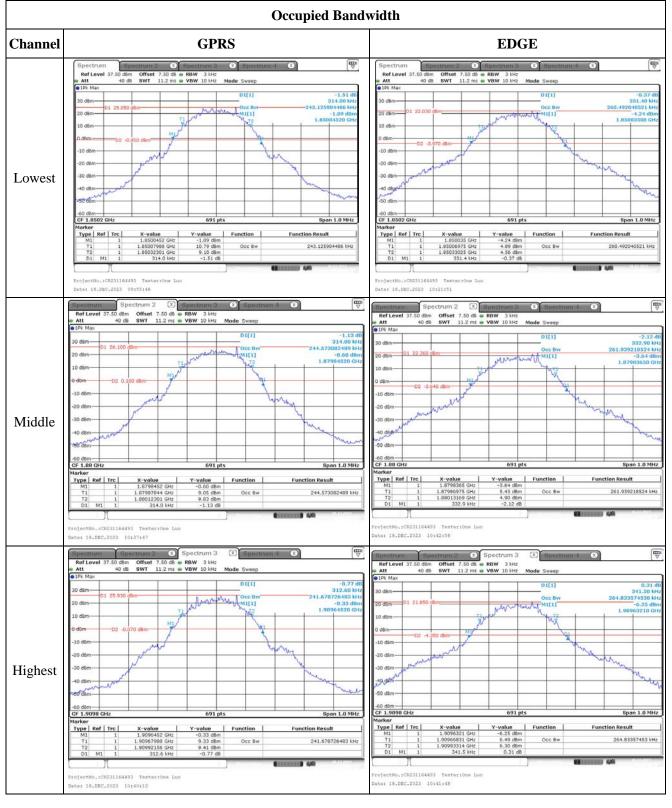
Out of band emission, Band Edge

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

Frequency Sta	ability								
Test Mode:	GMSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge							
Test Item	Temperature (°C)	Voltage (V _{DC})		r Edge Hz)	Upper Edge (MHz)				
			Result	Limit	Result	Limit			
	-30	3.8	1850.047	1850.000	1909.948	1910.000			
	-20	3.8	1850.061	1850.000	1909.916	1910.000			
	-10	3.8	1850.066	1850.000	1909.929	1910.000			
Frequency Stability vs. Temperature	0	3.8	1850.046	1850.000	1909.934	1910.000			
	10	3.8	1850.084	1850.000	1909.967	1910.000			
	20	3.8	1850.080	1850.000	1909.922	1910.000			
	30	3.8	1850.023	1850.000	1909.914	1910.000			
	40	3.8	1850.036	1850.000	1909.971	1910.000			
	50	3.8	1850.091	1850.000	1909.996	1910.000			
Frequency Stability vs. Voltage	20	3.2	1850.096	1850.000	1909.911	1910.000			
	20	4.4	1850.080	1850.000	1909.937	1910.000			
					Result:	Pass			

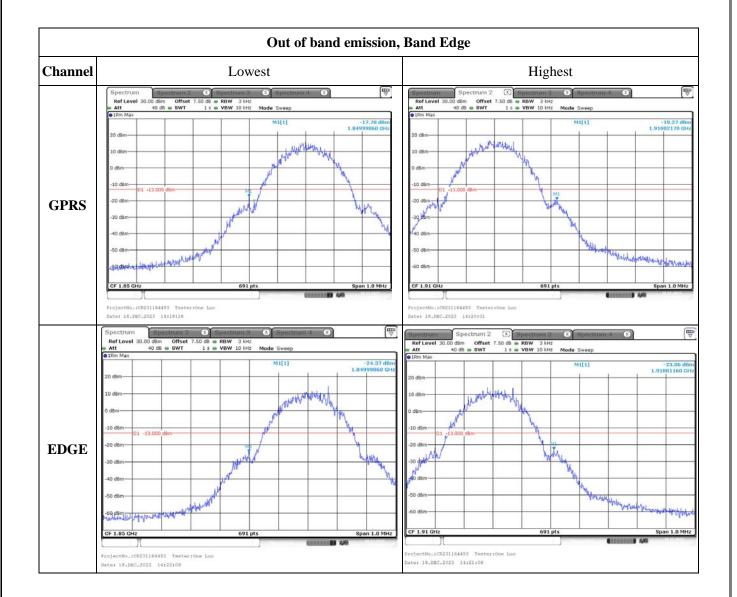
Test Mode:	8PSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test Item	Temperature	Voltage (V _{DC})		r Edge Hz)	Upper Edge (MHz)			
	(°C)		Result	Limit	Result	Limit		
	-30	3.8	1850.046	1850.000	1909.920	1910.000		
	-20	3.8	1850.013	1850.000	1909.996	1910.000		
	-10	3.8	1850.015	1850.000	1909.908	1910.000		
Frequency	0	3.8	1850.001	1850.000	1909.917	1910.000		
Stability vs.	10	3.8	1850.078	1850.000	1909.936	1910.000		
Temperature	20	3.8	1850.070	1850.000	1909.933	1910.000		
	30	3.8	1850.034	1850.000	1909.939	1910.000		
	40	3.8	1850.015	1850.000	1909.988	1910.000		
	50	3.8	1850.025	1850.000	1909.938	1910.000		
Frequency Stability vs. Voltage	20	3.2	1850.056	1850.000	1909.912	1910.000		
	20	4.4	1850.047	1850.000	1909.969	1910.000		
					Result:	Pass		

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



Report No.: CR231164493-00F

		opui	ious Emissio			ci iiiiiai				
Channel				GPF	RS					_
Lowest	Spectrum Espectrum Ref Level 37.50 dbm Offsr 40 db SWT 9 IPE Max 30 dbm 20 dbm 20 dbm	at 7.50 d8 RBW 100 kHz 9.7 ms VBW 300 kHz Mode	Spectrum 4 X Auto Sweep	-39.72 dim 901.00 MHz	Spectrum Ref Level 33 Att 1Pk Max 30 dBm 20 dBm		Spectrum S0 db RBW 1 MH2 76 ms VBW 3 MH2	Spectrum Mode Auto Sweep Mi[1]		-23.26 dBn 17.7320 GH
	10 dBm				10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	-13.000 dBm	Jobseph wartons	www.www.	mman	
	-40 dlm	691 pts	United and the second	Stop 1.0 GHz		231164493 Tester: 2023 13:56:06		L pts	8 2011 10 444	stop 20.0 GHz
	Spectrum Ref Level 37.50 dam Offse Att 40 dB SWT	2 X Spectrum 3 X t 7.50 dB • RBW 100 kHz 9.7 ms • VBW 300 kHz Mode	Spectrum 4 X	₩ V	Spectrum Ref Level 37.	Spectrum 2	Spectrum So dB • RBW 1 MH2 F6 ms • VBW 3 MH2		4 8	
	9 IPk Max 30 dBm		MI[1]	-40.05 dBm 725.60 MHz	e 1Pk Max 30 dBm 20 dBm			M1[1]		-23.53 dB 16.0270 G
	10 dBm				10 dBm	-13.000 dBm				
	-20 dBm	مر المراجع الم	M2	- war - When	-20 dBm	with later manual	Lanner	the manual second	er and and	Mulin
	-50 dBm -60 dBm Start 30.0 MHz	691 pts	CHARLES &	Stop 1.0 GHz	-50 dBm -60 dBm Start 1.0 GHz		693	L pts	Q	Stop 20.0 GH
	ProjectNo.:CR231164493 Test Date: 18.DEC.2023 13:54:33 Spectrum Spectrum	er:One Luo	Spectrum 4 (8)	[¹⁰]	ProjectNo.1CR2 Date: 18.DEC.2	31164493 Testeri 023 13:58:21 Spectrum 2	(X) Spectrum	3 X Spectrum	4 8	1
	Ref Level 37.50 dBm Offse Att 40 dB SWT 1Pk Max	t 7.50 dB RBW 100 kHz 9.7 ms VBW 300 kHz Mode	Auto Sweep	-39.98 dBm	Ref Level 37. Att 91Pk Max		SO dB - RBW 1 MHz 16 ms - VBW 3 MHz	Mode Auto Sweep		-23.70 dt
Highest	30 d8m		$\left \right $	967.00 MHz						15,6690 G
	10 dBm				0 dBm					
	01 -13.000 dBm -20 dBm -30 dBm				-20 dBm	-13.000 dBm	hime	manan	winter	www
	-50 dBm-	and the second state of the second	anton and a strange and a st	M1	-40 dBm					
	-60 dBm Start 30.0 MHz	691 pts		Stop 1.0 GHz	-60 dBm Start 1.0 GHz		69)	L pts	(11111) 4/4	Stop 20.0 GH



4.5 Antenna 1 oft 1 est Data and Results for WCDWA Danu 2.						
Serial Number:2D1L-2	Test Date:	2023/12/18				
Test Site:RF	Test Mode:	Transmitting				
Tester:One Luo	Test Result:	Pass				

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

Environmental Conditions:

Environmental Collui			
Temperature: (°C)	Relative Humidity:31 (%)	ATM Pressure: (kPa)	

Test Equipment List and Details: Serial Calibration Calibration Manufacturer Description Model Number Date 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 1515 RA914 Power Splitter Each time N/A Wideband Radio R&S **CMW500** 143458 2023/3/31 2024/3/30 Communication Tester TEMP&HUMI Test BACL BTH-150-40 30174 2023/3/31 2024/3/30 Chamber 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:

RF Output Power							
Test Made	Conducted A	Conducted Average Output Power(dBm)			EIRP Limit		
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	(dBm)		
WCDMA R99	23.29	23.76	23.77	25.97	33		
HSDPA Subtest 1	23.27	23.61	23.73	25.93	33		
HSDPA Subtest 2	23.17	23.26	23.21	25.46	33		
HSDPA Subtest 3	23.01	23.28	23.33	25.53	33		
HSDPA Subtest 4	22.99	23.01	23.14	25.34	33		
HSUPA Subtest 1	22.8	23.07	23.3	25.5	33		
HSUPA Subtest 2	22.79	23.13	22.82	25.33	33		
HSUPA Subtest 3	22.67	22.96	23.07	25.27	33		
HSUPA Subtest 4	22.6	22.82	22.98	25.18	33		
HSUPA Subtest 5	22.55	22.98	22.81	25.18	33		
DC-HSDPA Subtest 1	22.43	22.88	23	25.2	33		
DC-HSDPA Subtest 2	22.29	22.58	22.5	24.78	33		
DC-HSDPA Subtest 3	22.18	22.56	22.2	24.76	33		
DC-HSDPA Subtest 4	21.99	22.24	22.47	24.67	33		
HSPA+ Subtest 1	21.87	22.14	22.43	24.63	33		
Note: EIRP=Conducted Power	(dBm) - Lc(dB) +	GT(dBi)					

Result:

Pass

Peak-to-average Ratio(PAR)						
	Peak	to-average Rati	T · · ·			
Test Mode	Lowest Channel	Middle Channel	Highest Channel			
WCDMA R99	2.99	2.96	2.81	13		
HSDPA	5.04	4.9	4.87	13		
HSUPA	5.22	5.25	5.42	13		
				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	
WCDMA R99	4.182	4.168	4.168	4.753	4.771	4.74	
HSDPA	4.182	4.182	4.153	4.739	4.728	4.726	
HSUPA	4.182	4.197	4.168	4.739	4.728	4.74	
Note: The test pl	ots please refer	to the Plots of O	ccupied Bandwi	dth			

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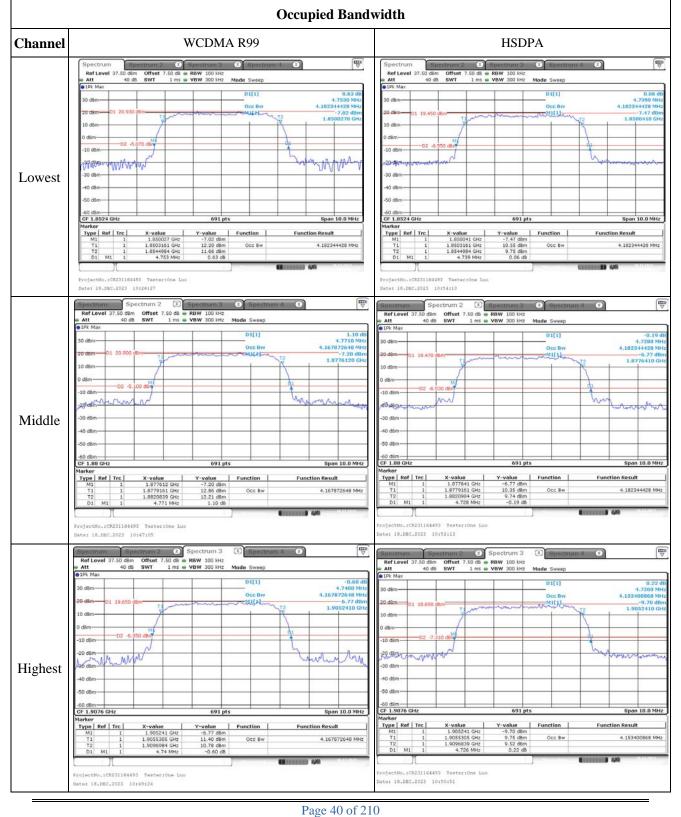
Spurious Emissions at Antenna Terminal

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

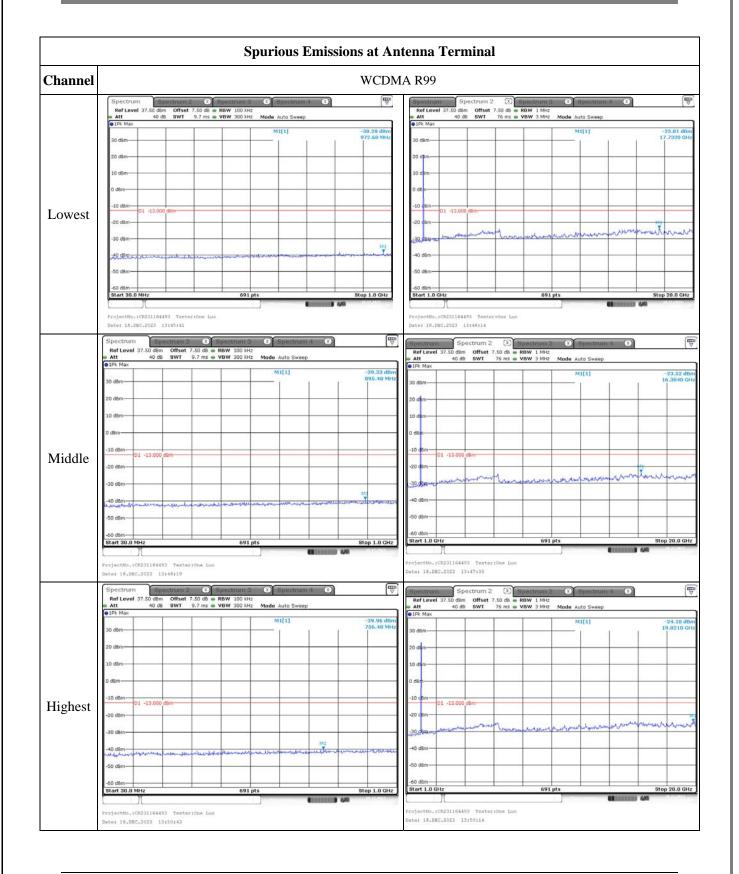
Out of band e	Out of band emission, Band Edge		
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.		

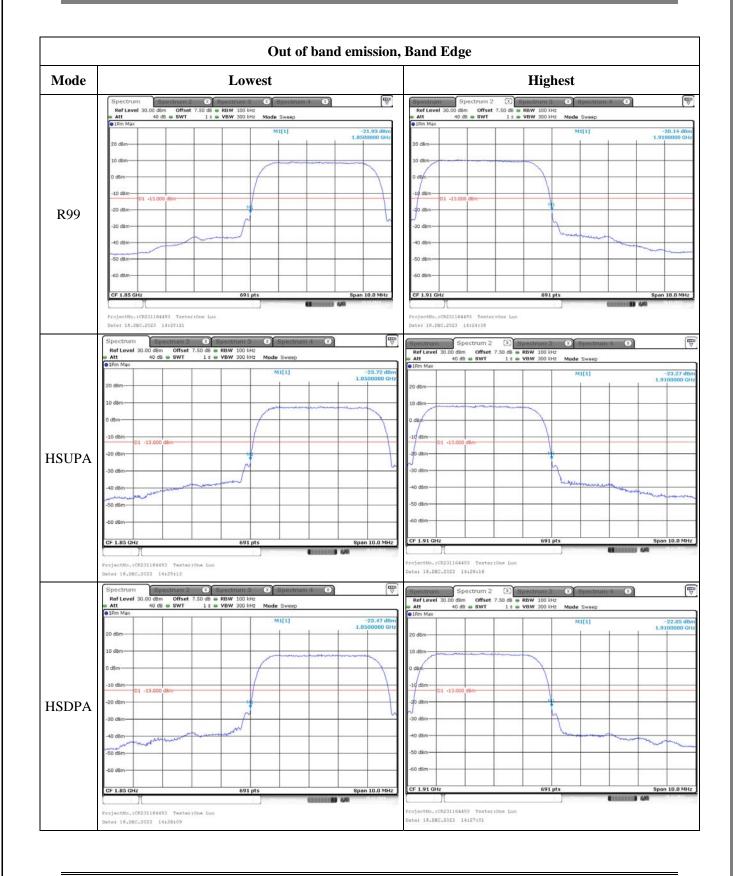
Frequency Sta	Frequency Stability						
Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge					
Test Item	Temperature	Voltage		r Edge Hz)		Edge Hz)	
	(°C)	(Vdc)	Result	Limit	Result	Limit	
	-30	3.8	1850.384	1850.000	1909.606	1910.000	
	-20	3.8	1850.329	1850.000	1909.671	1910.000	
	-10	3.8	1850.325	1850.000	1909.642	1910.000	
Frequency	0	3.8	1850.350	1850.000	1909.604	1910.000	
Stability vs.	10	3.8	1850.337	1850.000	1909.691	1910.000	
Temperature	20	3.8	1850.316	1850.000	1909.698	1910.000	
	30	3.8	1850.363	1850.000	1909.662	1910.000	
	40	3.8	1850.346	1850.000	1909.685	1910.000	
	50	3.8	1850.376	1850.000	1909.648	1910.000	
Frequency Stability vs.	20	3.2	1850.314	1850.000	1909.644	1910.000	
Voltage	20	4.4	1850.300	1850.000	1909.617	1910.000	
					Result:	Pass	

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



1	Occupied Bandwidth
Channel	HSUPA
Lowest	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Spectrum
	MI 3 1.550041 GHz -0.49 GBm 0.02 BW 4.102344429 MHz 1.8501316 GHz 0.51 GBm 0.22 BW 4.102344429 MHz 12 3 1.8544094 GHz 10.06 GBm 0.43 GB 4.00 DM 3 4.739 MHz 0.43 GB 4.00 DM 5 1.0231164493 TesteriOne Luo Datei 10.58231164493 TesteriOne Luo Datei 10.58231164493 TesteriOne Luo
Middle	Spectrum
Highest	Spectrum





It I I I III to III III	Thirdina Tort Test Data and Results for Webbint Data It					
Serial Number:	2D1L-2	Test Date:	2023/12/18			
Test Site:	RF	Test Mode:	Transmitting			
Tester:	One Luo	Test Result:	Pass			

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

Environmental Conditions:						
Temperature: (°C)	22.9	Relative Humidity: (%)	31	ATM Pressure: (kPa)	101.8	

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	- Erealiency Erealiency Erealiency					
WCDMA	1712.4	1732.6	1752.6			

Test Data:

RF Output Power					
	Conducted A	Average Output	t Power(dBm)	Maximum	EIRP Limit
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	(dBm)
WCDMA R99	23.25	23.76	23.85	26.15	30
HSDPA Subtest 1	23.08	23.62	23.48	25.92	30
HSDPA Subtest 2	22.97	23.21	23.51	25.81	30
HSDPA Subtest 3	22.83	23.29	23.39	25.69	30
HSDPA Subtest 4	22.73	22.8	22.82	25.12	30
HSUPA Subtest 1	22.56	22.96	22.87	25.26	30
HSUPA Subtest 2	22.51	22.67	22.86	25.16	30
HSUPA Subtest 3	22.4	22.47	22.66	24.96	30
HSUPA Subtest 4	22.39	22.81	22.67	25.11	30
HSUPA Subtest 5	22.25	22.45	22.52	24.82	30
DC-HSDPA Subtest 1	22.22	22.63	22.65	24.95	30
DC-HSDPA Subtest 2	22.11	22.33	22.22	24.63	30
DC-HSDPA Subtest 3	22.05	22.59	22.52	24.89	30
DC-HSDPA Subtest 4	21.99	22.15	22.01	24.45	30
HSPA+ Subtest 1	21.95	22.25	22.54	24.84	30
Note: EIRP=Conducted Power	(dBm) - Lc(dB) +	GT(dBi)			
				Result:	Pass

Peak-to-average Ratio(PAR)						
	Peak	to-average Rati	o(dB)	T.;	nit	
Test Mode	Lowest Channel	Middle Channel	Highest Channel		B)	
WCDMA R99	3.22	2.99	3.22	1	3	
HSDPA	5.04	4.61	4.64	1	3	
HSUPA	5.74	5.57	5.74	1	3	
				Result:	Pass	

Occupied Bandwidth							
Opration	99%	Occupied Band (MHz)	dwidth	26 dB Occupied Bandwidth (MHz)			
Mode Low Channe		Middle channel	High Channel	Low Channel	Middle Channel	High Channel	
WCDMA R99	4.168	4.182	4.168	4.732	4.761	4.761	
HSDPA	4.182	4.197	4.182	4.732	4.761	4.732	
HSUPA	4.168	4.168	4.168	4.732	4.732	4.732	
Note: The test pl	ots please refer	to the Plots of O	ccupied Bandwid	dth			

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Spurious Emissions at Antenna Terminal

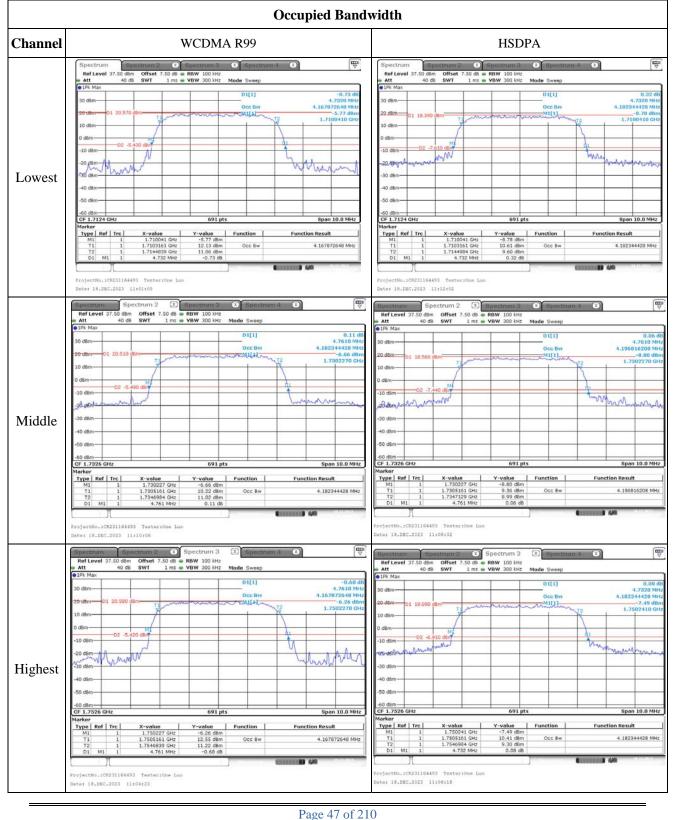
Result: Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

Out of band en	Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.	

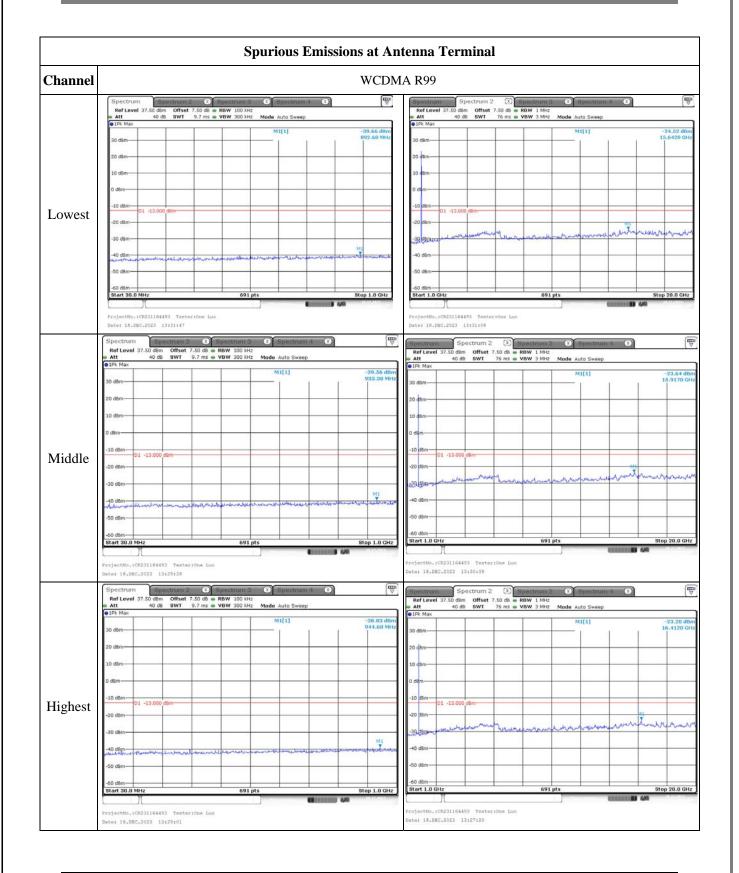
Frequency Stability

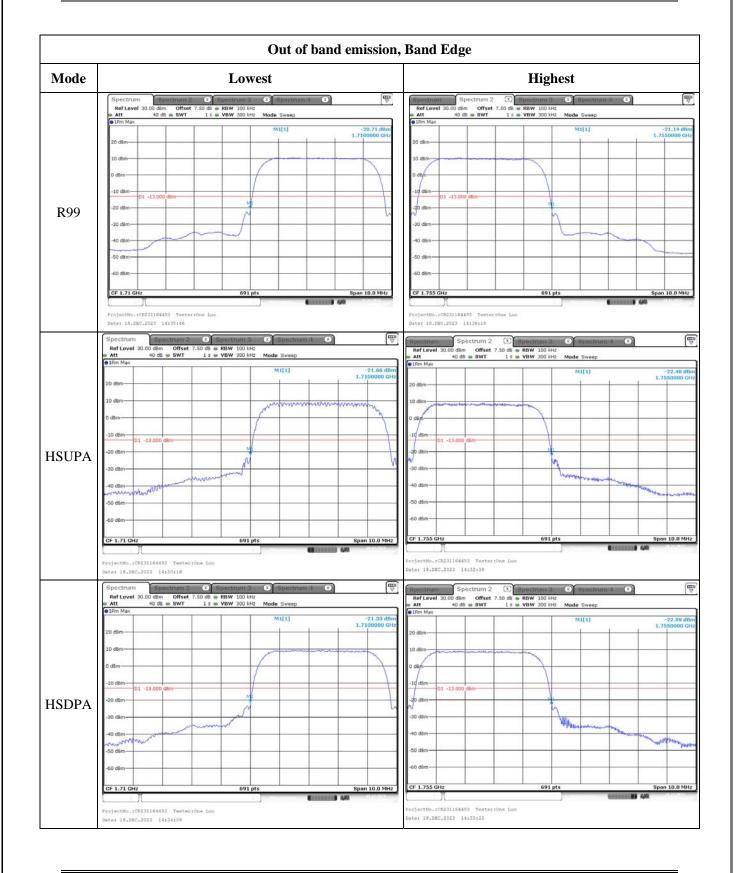
Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature	Voltage			Upper Edge (MHz)	
	(°C)	(Vdc)	Result	Limit	Result	Limit
	-30	3.8	1710.395	1710.000	1754.670	1755.000
	-20	3.8	1710.317	1710.000	1754.651	1755.000
	-10	3.8	1710.361	1710.000	1754.680	1755.000
Frequency	0	3.8	1710.314	1710.000	1754.608	1755.000
Stability vs.	10	3.8	1710.366	1710.000	1754.615	1755.000
Temperature	20	3.8	1710.316	1710.000	1754.684	1755.000
	30	3.8	1710.367	1710.000	1754.602	1755.000
	40	3.8	1710.326	1710.000	1754.615	1755.000
	50	3.8	1710.326	1710.000	1754.618	1755.000
Frequency Stability vs.	20	3.2	1710.356	1710.000	1754.642	1755.000
Voltage	20	4.4	1710.340	1710.000	1754.641	1755.000
					Result:	Pass

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



	Occupied Bandwidth
Channel	HSUPA
Lowest	Spectrum Spectrum 3 Spectrum 4 Image: Spectrum 3 Spectrum 4 Image: Spectrum 3 Spectrum 4 Image: Spectrum 3 Image: Spectrum 4 Image: Spectrum 4
	OF J.7124 GHz 693 pts Span 10.0 MHz Narker Yupel Ref Trc X-value Function Function Result Mil 1 1.710041 GHz 10.3 dBm Function Result Function Result T1 1 1.710041 GHz 10.3 dBm Occ Bw 4.167072648 MHz T2 1 1.714409 GHz -0.70 dBm Occ Bw 4.167072648 MHz O1 MM 4 4.722 MHz -0.08 dB Function Result
Middle	Spectrum
Highest	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 W Ref Level 37.50 die Offset 7.50 die RBW 100 kiz Mode Sweep 100 die 01113 0.11 die 0.11 die 90 die 0 000 01113 0.11 die 0.11 die 0.11 die 0.11 die 0.12 die 0.02 die 0.00 die





The function of the second sec	Thitema I of t Test Data and Results for WeDMIT Dana 5.					
Serial Number:	2D1L-2	Test Date:	2023/12/18			
Test Site:		Test Mode:	Transmitting			
Tester:	One Luo	Test Result:	Pass			

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

Environmental Conditions:						
Temperature: (°C)	22.9	Relative Humidity: (%)	31	ATM Pressure: (kPa)	101.8	

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:

RF Output Power	Conducted A	Average Output	Power(dBm)	Maximum ERP L	
Test Mode	Lowest Channel	Middle Channel	Highest Channel	ERP (dBm)	(dBm)
WCDMA R99	22.25	22.4	22.68	20.23	38.45
HSDPA Subtest 1	22.11	22.25	22.2	19.8	38.45
HSDPA Subtest 2	22.02	22.01	22.51	20.06	38.45
HSDPA Subtest 3	21.85	22.04	22.13	19.68	38.45
HSDPA Subtest 4	21.66	22.15	21.99	19.7	38.45
HSUPA Subtest 1	21.59	21.58	21.87	19.42	38.45
HSUPA Subtest 2	21.46	21.7	21.6	19.25	38.45
HSUPA Subtest 3	21.34	21.35	21.51	19.06	38.45
HSUPA Subtest 4	21.18	21.55	21.43	19.1	38.45
HSUPA Subtest 5	21.16	21.26	21.69	19.24	38.45
DC-HSDPA Subtest 1	21.06	21.45	21.31	19	38.45
DC-HSDPA Subtest 2	21	21.53	21.4	19.08	38.45
DC-HSDPA Subtest 3	20.88	21.08	21.17	18.72	38.45
DC-HSDPA Subtest 4	20.87	20.97	21.41	18.96	38.45
HSPA+ Subtest 1	20.79	20.8	21.04	18.59	38.45
Note: ERP= Conducted Power(dBm) Gr(dBd)=Gr(dBi)-2.15) - Lc(dB) + Gt(dE	3d)			
. / . /				Result:	Pass

Peak-to-average Ratio(PAR)

Teak-to-average Ratio(TTIK	/				
	Peak-to-average Ratio(dB)			Limit	
Test Mode	Lowest Channel	Middle Channel	Highest Channel	(dl	
WCDMA R99	3.16	3.04	3.16	1	3
HSDPA	4.7	5.07	4.52	1	3
HSUPA	5.74	5.39	5.59	1	3
				Result:	Pass

Occupied Ban	dwidth					
Operation	99% Occupied Bandwidth (MHz)		26 dB Occupied Bandwidth (MHz)			
Mode	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.139	4.139	4.168	4.674	4.747	4.718
HSDPA	4.124	4.182	4.153	4.718	4.732	4.732
HSUPA	4.153	4.168	4.153	4.718	4.718	4.703
Note: The test pl	ots please refer	to the Plots of O	ccupied Bandwi	dth		

Spurious Emissions at Antenna Terminal

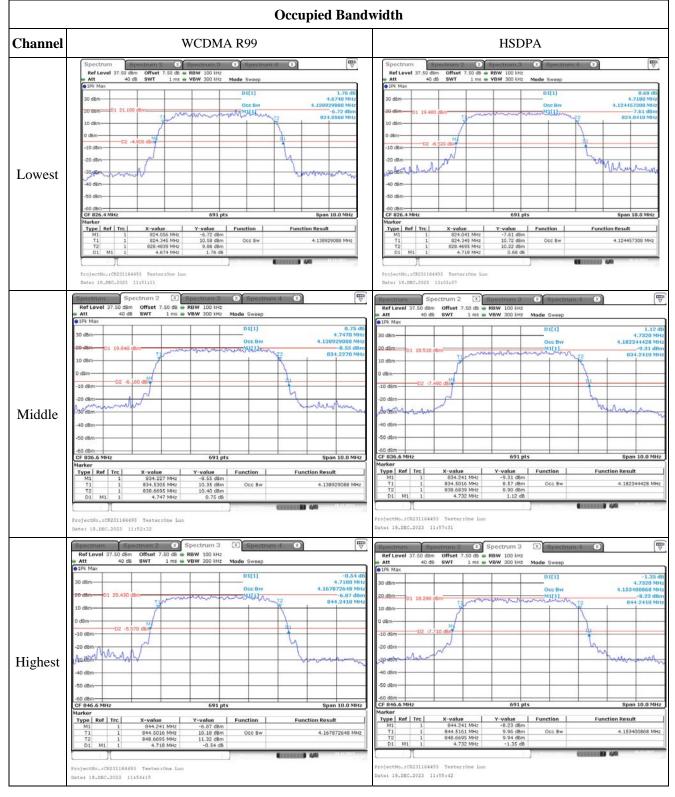
Result: Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

Out of band en	mission, Band Edge
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency	Stability
ricquency	Stability

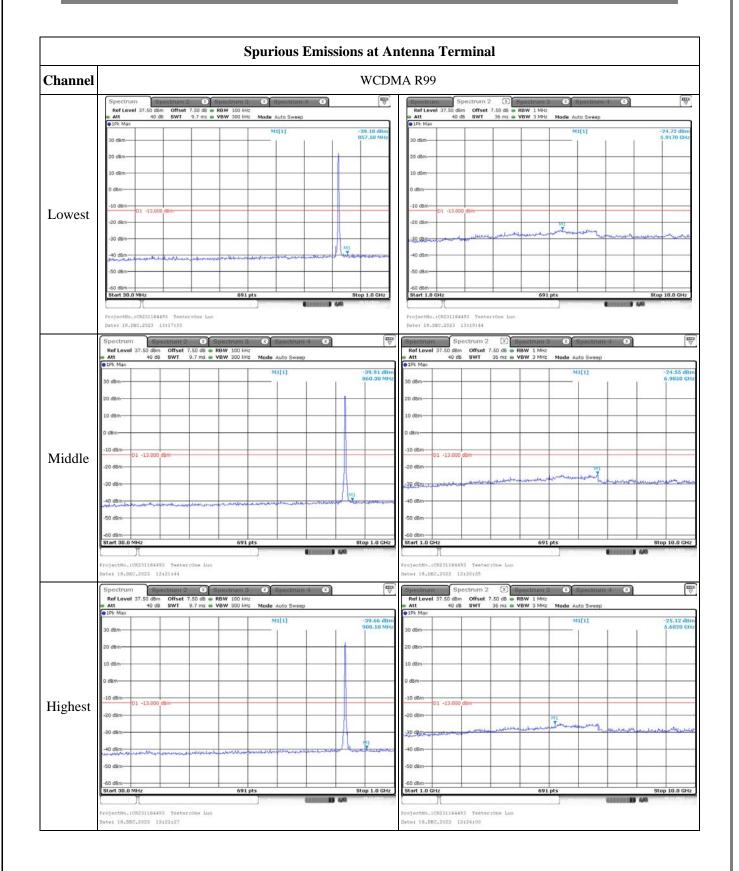
Test Modulation:	WCDN	/IA R99	Test Channel:	836.6	MHz
	Temperature	Voltage	Frequen		Limit
Test Item	(°C)	(VDC)	(Hz)	(ppm)	(ppm)
	-30	3.8	-5.54	-0.007	2.5
	-20	3.8	5.12	0.006	2.5
	-10	3.8	-7.54	-0.009	2.5
Frequency Stability vs. Temperature	0	3.8	6.69	0.008	2.5
	10	3.8	-9.3	-0.011	2.5
remperature	20	3.8	-7.91	-0.009	2.5
	30	3.8	8.99	0.011	2.5
	40	3.8	8.43	0.010	2.5
	50	3.8	6.94	0.008	2.5
Frequency Stability vs. Voltage	20	3.2	9.66	0.012	2.5
	20	4.4	-6.08	-0.007	2.5
	•		•	Result:	Pass

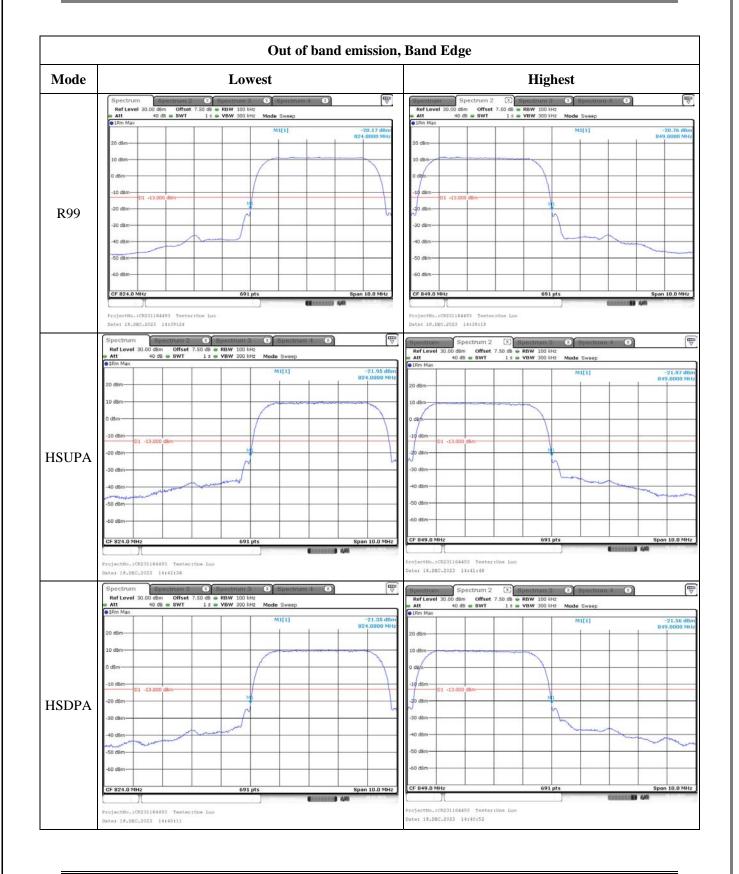
Test Plots(Note: The 7.5dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



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	Occupied Bandwidth
Channel	HSUPA
Lowest	Spectrum Spectrum 3 Spectrum 4 Image: Spectrum 3 Image: Spectrum 4 Image: Spectrum 3 Image: Spectrum 4 Image: Spectrum 3 Image: Spectrum 4 Image: Spectrum 4 Image: Spectrum 3 Image: Spectrum 4 Image: Sp
Middle	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 The spectrum 3 Spectrum 4 The spectrum 4 <
Highest	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Spectrum 3 Ref Level 37.50 dm Offset 7.50 dm R BW 100 kit Image: Comparison of the second





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Serial Number:	2D1L-2	Test Date:	2023/11/24~2023/12/20				
Test Site:	RF	Test Mode:	Transmitting				
Tester:	One Luo	Test Result:	Pass				

4.6 Antenna Port Test Data and Results for LTE Band 2

Environmental Conditions:					
Temperature: (℃)	22.3~25.8	Relative Humidity: (%)	31~52	ATM Pressure: (kPa)	100.9~101.9

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 Frequence	cy for Each Mo	ode:	
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 Pop	wer					•
Test Bandwidth &	Resource Block &	Conducted Average Output Power(dBm)			Maximum EIRP	EIRP Limit
Modulation	RB offset	Lowest Channel	Middle Channel	Highest Channel	(dBm)	(dBm)
	RB1#0	23.56	23.3	23.19		
	RB1#3	23.71	23.46	23.43		
1.4MHz QPSK	RB1#5	23.51	23.28	23.18	25.91	33
1.4MIIIZ QFSK	RB3#0	23.55	23.4	23.22	23.91	
	RB3#3	23.52	23.37	23.26		
	RB6#0	22.6	22.38	22.26		
	RB1#0	22.51	22.37	22.15		
	RB1#3	22.67	22.53	22.36		
1 4MU - 160 AM	RB1#5	22.49	22.35	22.2	24.9	33
1.4MHz 16QAM	RB3#0	22.69	22.29	22.28	24.9	33
-	RB3#3	22.7	22.31	22.32		
	RB6#0	21.58	21.36	21.17		
	RB1#0	23.61	23.33	23.25		
	RB1#8	23.57	23.29	23.24		
	RB1#14	23.56	23.27	23.22	25.01	
3MHz QPSK	RB6#0	22.52	22.3	22.23	25.81	33
	RB6#9	22.56	22.31	22.2		
-	RB15#0	22.53	22.31	22.24		
	RB1#0	22.55	22.8	22.35		
	RB1#8	22.51	22.76	22.31		
	RB1#14	22.5	22.75	22.33	25	
3MHz 16QAM	RB6#0	21.43	21.33	21.23	25	33
-	RB6#9	21.43	21.32	21.2		
ľ	RB15#0	21.49	21.38	21.18		
	RB1#0	23.47	23.28	23.17		
	RB1#13	23.54	23.3	23.24		
	RB1#24	23.42	23.24	23.14	25.74	22
5MHz QPSK	RB15#0	22.51	22.36	22.27	25.74	33
-	RB15#10	22.56	22.31	22.14		
	RB25#0	22.55	22.28	22.16		
	RB1#0	22.53	22.08	22.36		
ľ	RB1#13	22.61	22.15	22.48		
	RB1#24	22.48	22.13	22.34	24.01	
5MHz 16QAM	RB15#0	21.45	21.39	21.23	24.81	33
	RB15#10	21.51	21.34	21.08		
	RB25#0	21.47	21.35	21.13		
	RB1#0	23.59	23.43	23.28	A = A :	
10MHz QPSK	RB1#25	23.65	23.48	23.36	25.85	33

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Report No.: CR231164493-00F

	(***	/	× /		Result:	Pass
Note: EIRP=Con					1 1	
	RB100#0	21.44	21.20	20.85		
-	RB50#50	21.3	21.41	20.67		
20MHz 16QAM	RB50#0	22.01	21.41	20.84	25.25	33
	RB1#30 RB1#99	23.05	22.7	22.12		
	RB1#0 RB1#50	22.79 23.05	22.38	21.78	-	
	RB100#0 RB1#0	22.46	22.35	21.97		
	RB50#50 RB100#0	22.53 22.46	22.25	21.66 21.97	-	
	RB50#0	22.35	22.43 22.25	21.82		
20MHz QPSK	RB1#99	23.15	23.04	22.49	25.78	33
ŀ	RB1#50	23.58	23.46	23.13	-	
	RB1#0	23.34	23.18	22.91	-	
	RB75#0	21.47	21.38	21.25		
	RB36#39	21.49	21.3	21.2		33
-	RB36#0	21.48	21.42	21.3	-	
5MHz 16QAM	RB1#74	22.62	22.69	22.2	25.04	
-	RB1#38	22.84	22.76	22.35	-	
-	RB1#0	22.82	22.7	22.36		
	RB75#0	22.57	22.45	22.29		
-	RB36#39	22.56	22.31	22.25	-	33
	RB36#0	22.55	22.46	22.35		
15MHz QPSK	RB1#74	23.36	23.14	23.08	25.73	
-	RB1#38	23.53	23.31	23.27	-	
-	RB1#0	23.52	23.32	23.25	-	
	RB50#0	21.5	21.35	21.19		
	RB25#25	21.55	21.36	21.14	-	
	RB25#0	21.49	21.44	21.29	, /	55
10MHz 16QAM	RB1#49	22.53	22.27	22.68	24.97	33
	RB1#25	22.77	22.44	22.74	_	
	RB1#0	22.65	22.29	22.75		
	RB50#0	22.58	22.36	22.19		
	RB25#25	22.61	22.28	22.11		
	RB25#0	22.56	22.39	22.29		
	RB1#49	23.5	23.3	23.19		

Peak-to-average Ratio(PAR)					
	Resource	Peak-to-average Ratio(dB)			
Test Bandwidth & Modulation	Block & RB offset	Lowest Channel	Middle Channel	Highest Channel	Limit (dB)
10MHz QPSK	RB1#0	4.87	3.51	4.09	13
	RB50#0	4.90	4.64	4.58	13
10MHz 16QAM	RB1#0	5.80	4.43	5.01	13
	RB50#0	5.77	5.65	5.54	13
				Result:	Pass

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Occupied Bandwidth						
Operation	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
Mode	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.096	1.102	1.096	1.314	1.284	1.314
1.4MHz 16QAM	1.096	1.096	1.096	1.284	1.296	1.314
3MHz QPSK	2.671	2.695	2.683	2.88	2.88	2.892
3MHz 16QAM	2.671	2.683	2.683	2.88	2.88	2.88
5MHz QPSK	4.511	4.551	4.531	5.18	5.22	5.2
5MHz 16QAM	4.531	4.511	4.531	5.24	5.14	5.16
10MHz QPSK	8.942	8.982	8.942	10	9.92	9.8
10MHz 16QAM	8.942	8.942	8.942	9.88	9.76	9.84
15MHz QPSK	13.593	13.473	13.473	14.88	14.7	14.82
15MHz 16QAM	13.473	13.533	13.533	14.82	14.82	14.76
20MHz QPSK	17.964	17.964	17.964	19.68	19.6	19.76
20MHz 16QAM	17.964	17.964	17.964	19.6	19.6	19.68
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.

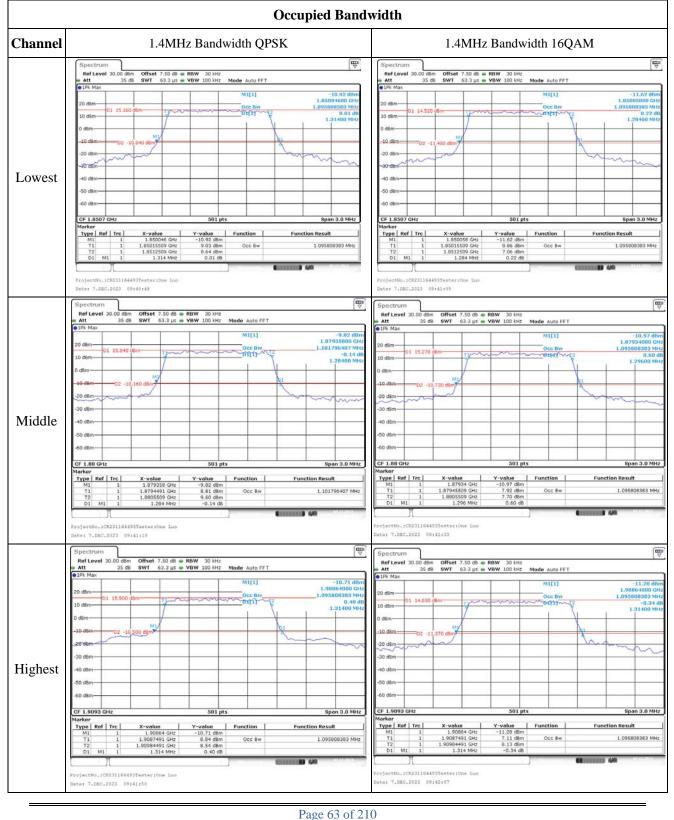
Out of band emission, Band Edge		
Result:	Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.	

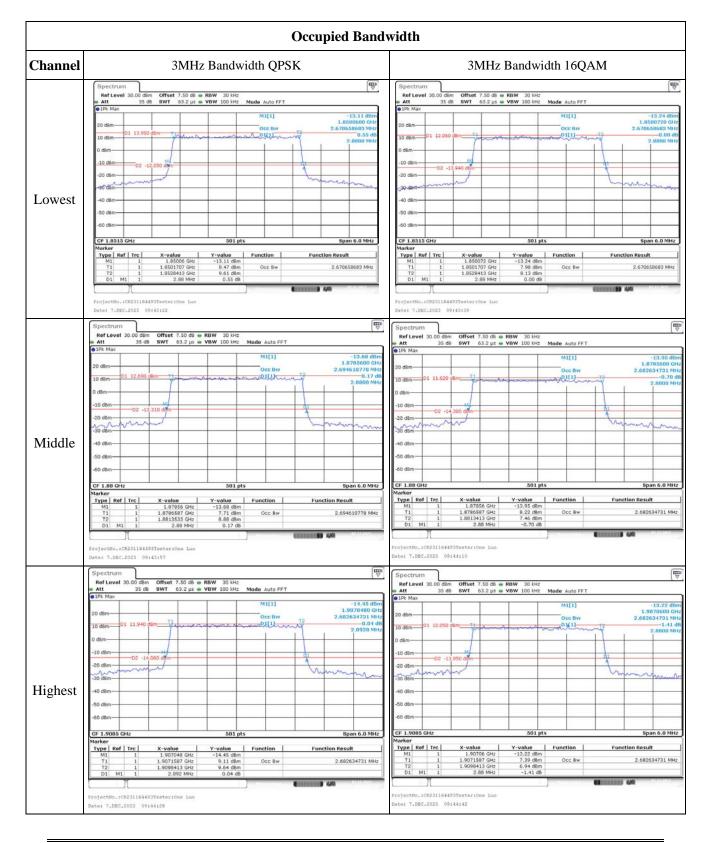
Frequency Stability

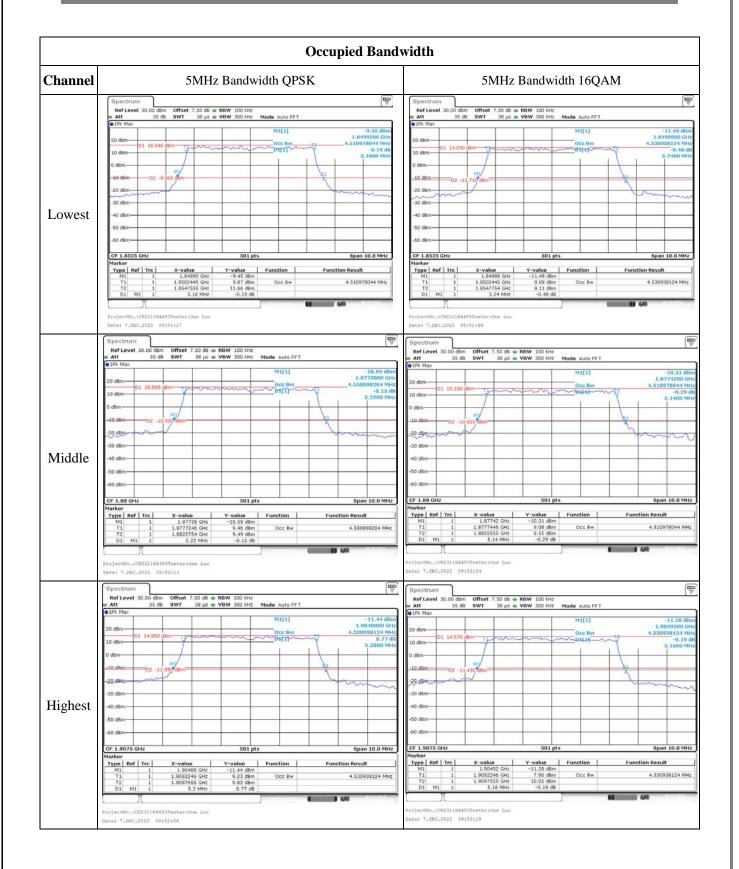
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature Voltage		Lower Edge (MHz)		Upper Edge (MHz)	
	(°C)	(Vdc)	Result	Limit	Result	Limit
	-30	3.8	1851.025	1850.000	1908.912	1910.000
	-20	3.8	1851.016	1850.000	1908.919	1910.000
	-10	3.8	1851.016	1850.000	1908.926	1910.000
Frequency	0	3.8	1851.080	1850.000	1908.936	1910.000
Stability vs. Temperature	10	3.8	1851.086	1850.000	1908.910	1910.000
	20	3.8	1851.058	1850.000	1908.942	1910.000
	30	3.8	1851.024	1850.000	1908.907	1910.000
	40	3.8	1851.045	1850.000	1908.901	1910.000
	50	3.8	1851.007	1850.000	1908.944	1910.000
Frequency Stability vs.	20	3.2	1851.060	1850.000	1908.909	1910.000
Voltage	20	4.4	1851.056	1850.000	1908.988	1910.000
					Result:	Pass

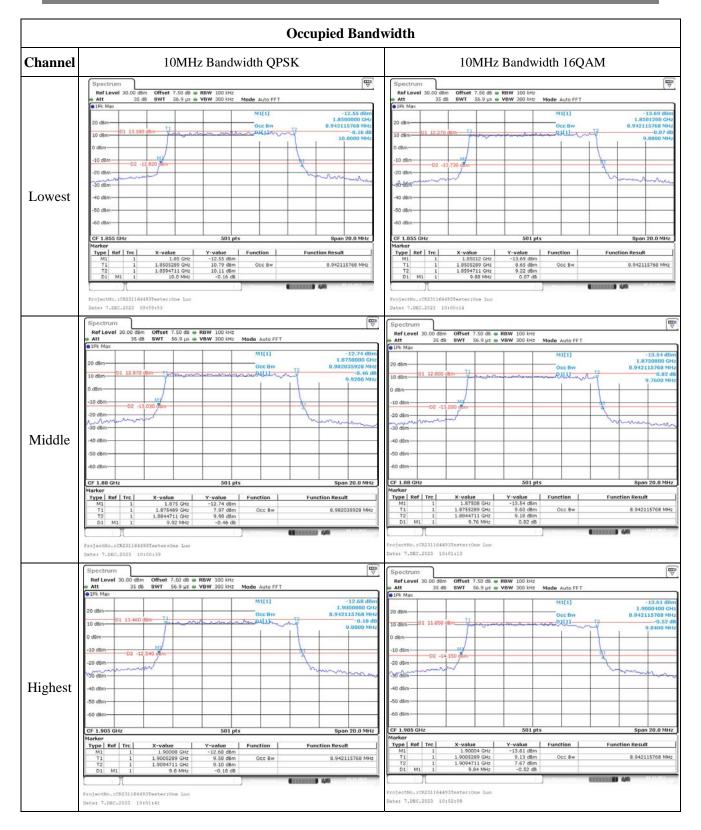
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature	Voltage	Lower Edge (MHz)		Upper Edge (MHz)	
	(°C)	(Vdc)	Result	Limit	Result	Limit
	-30	3.8	1851.048	1850.000	1909.053	1910.000
	-20	3.8	1851.084	1850.000	1909.033	1910.000
Frequency Stability vs. Temperature	-10	3.8	1851.019	1850.000	1909.065	1910.000
	0	3.8	1851.010	1850.000	1909.016	1910.000
	10	3.8	1851.080	1850.000	1909.058	1910.000
	20	3.8	1851.058	1850.000	1909.022	1910.000
	30	3.8	1851.036	1850.000	1909.036	1910.000
	40	3.8	1851.056	1850.000	1909.069	1910.000
	50	3.8	1851.024	1850.000	1909.011	1910.000
Frequency Stability vs. Voltage	20	3.2	1851.061	1850.000	1909.021	1910.000
	20	4.4	1851.011	1850.000	1909.003	1910.000
					Result:	Pass

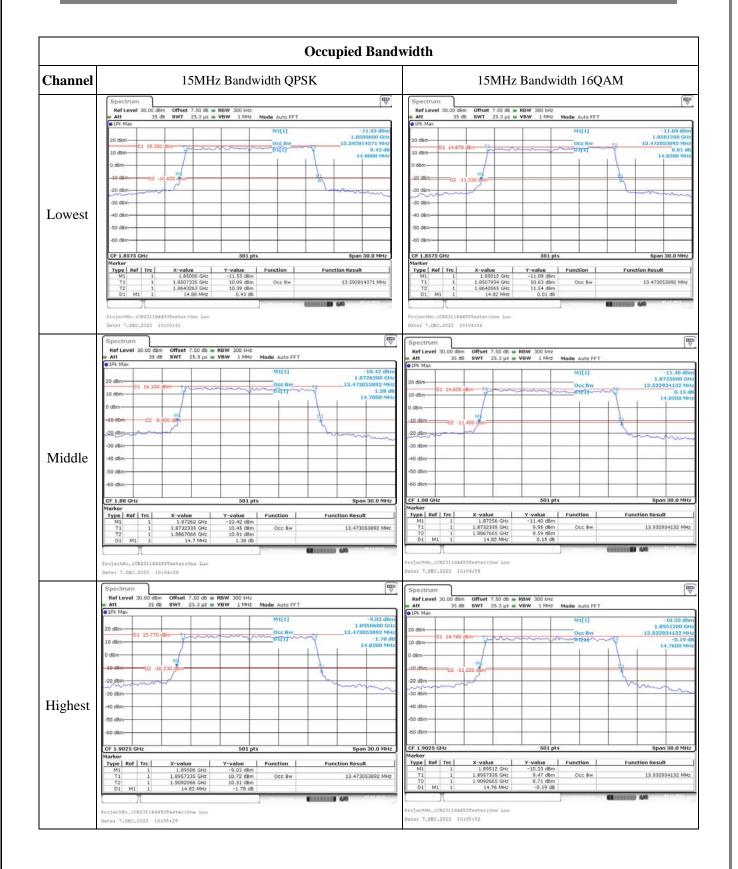
Test Plots(Note: The 7.5dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

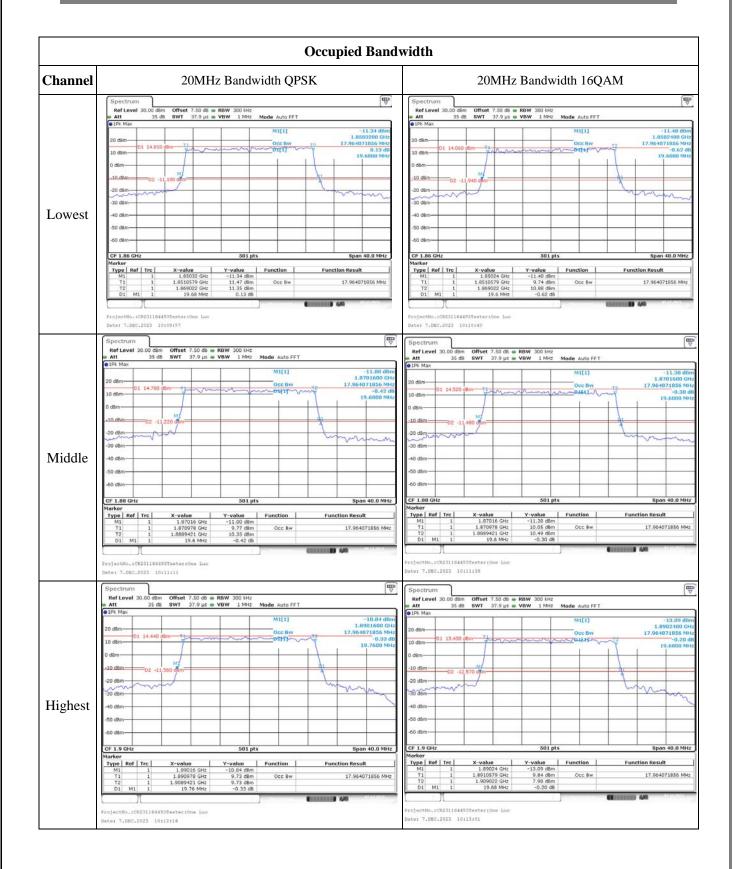


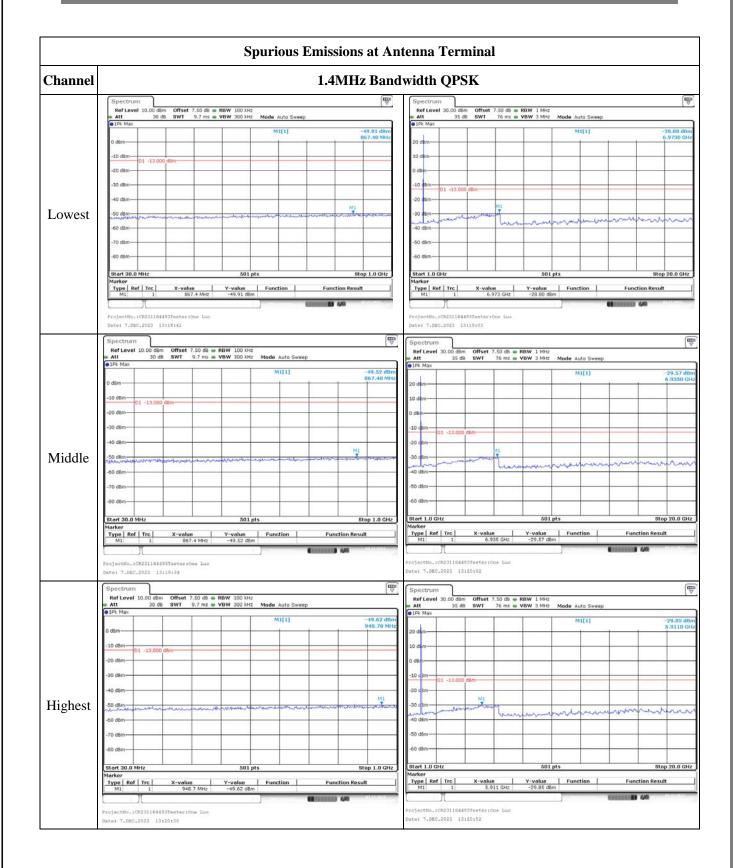












	Spurious Emissions at Ar	ntenna Terminal
Channel	3MHz Band	width QPSK
	Spectrum Image: Constraint of the sector of t	Spectrum (100) Ref Level 30.00 d8m Offset 7.50 d8 = RBW 1 MHz ★ Att 35 d8 SWT 76 ms = VBW 3 MHz Mode Auto Sweep
	●1Pk Max	e 1Pk Max
	0 dBm	20 dłm 0.224 dłm 6.3200 Głłź
	-10 dBm 01 -13.000 dBm	10 dbm
	-20 dBm	0 dBm
	-30 dBm	-10 dBm-
	-40 dam	-20 gam
Lowest	-50 dam	-30 dam
2011050	-60 dām	and
	-70 dBm	-50 dam-
	-80 d8m	-60 d8m
	Start 30.0 MHz 501 pts Stop 1.0 GHz	Start 1.0 GHz 501 pts Stop 20.0 GHz
	Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
	M1 1 896.7 MHz ~49.29 dBm	M1 1 6.328 GHz -30.24 dBm
	ProjectNo.:CR231164493Tester:One Luo	ProjectNo.:CRZ31164493Tester:One Luo
	Date: 7.DBC.2023 13:22:57	Date: 7.DEC.2023 13:22:53
	Spectrum Image: Comparison of the sector of th	Spectrum [min] Ref Level 30.00 dBm Offset 7.50 dB ● RBW 1 MHz
	Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep	Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep IPk Max
	M1[1] -49.68 dBm 966.10 MHz	M1[1] -29.96 dBm 5.7220 GHz
	0 d8m	20 d8m-
	-10 dBm 01 -13.000 dBm	10 dēm
	-20 dBm	0 d8m
	-30 d8m	-10 dBm 01 -13.000 dBm
	-40 dBm M1	-20 dBm
Middle	30 dBm - Martin was the way was a server a server and a server and a server and a server and a server a serve	-30 dem
	-60 dBm	-40 d8m
	-70 dBm	-50 d8m
	-80 d8m	-60 d8m-
	Start 30.0 MHz 501 pts Stop 1.0 GHz Marker	Start 1.0 GHz 501 pts Stop 20.0 GHz Marker
	Type Ref Trc X-value Y-value Function Function Result M1 1 966.1 MHz ~49.60 d8m	Type Ref Trc X-value Y-value Function Function Result M1 1 5.722 GHz -29.96 dBm -29.96 dBm
	[]() (INTERNO 4/4	
	ProjectNo.:CR231164493Tester:One Luo Date: 7.DBC.2023 13:23:24	ProjectNo.rCR231164493Tester:One Luo Date: 7.DBC.2023 13:23:52
	Spectrum 🕎	Spectrum 🕎
	RefLevel 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz	Ref Level 30.00 dBm Offset 7.50 dB @ RBW 1 MHz
		w Att 35 dB SWT 76 ms w VBW 3 MHz Mode Auto Sweep @1Pk Max
	0 d8m	M1[1] -29.55 dBm 20 d\$m
	-10 dBm	10 dsm
Highest	-20 dBm	0 dBn-
	-30 dBm	-10 cpm
	-40 dBm	
	-50 BBm Miles March March March Miles March Marc	-30 c3m
inghost	-60 dBm	- 20 dam
	-70 dBm	-50 d8m
	-80 dBm	-60 dBm
		Start 1.0 GHz 501 pts Stop 20.0 GHz
	Marker	Start LO UP2 Stop 20.0 GHZ Marker Type Ref Trc X-value Y-value Function Function Result
	Type Ref Trc X-value Y-value Function Function Result M1 1 760.9 MHz -49.62 dBm	Type Ref A value Produce Punctum Punctum M1 1 6.935 GHz -29.55 dBm Punctum Punctum Punctum
	ProjectNo.:CR231164493Tester:One Luo	ProjectNo.,1CR231164493Tester:One Luo
	ProjectNo.:CTX231164493Temter:One Luo Date: 7.DEC.2023 13:24:20	Dute: 7.DEC.2023 13:24:45

	Spurious Emissions at An	ntenna Terminal
Channel	5MHz Band	width QPSK
	Spectrum 😨	Spectrum 🕎
	Ref Level 10:00 dBm Offset 7:50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep	Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep
	1Pk Max M1[1] -48.90 dBm	19k Max 10k M1[1] -30,18 dim
	0 dBm 935,10 MHz	20 dkm 6,7000 GHz
	-10 dBm 01 -13.000 dBm	10 dBm
	-20 dBm	O dBm
	-30 dBm	-10 dbm-01 -13.000 dBm
	-40 d8m	-20 dam
Lowest	-50 dam	-30 com
	-60 dBm	40 dam
	-70 dBm	-50 d8m
	-00 d8m	-60 dām
	Start 30.0 MHz 501 pts Stop 1.0 GHz	Start 1.0 GHz 501 pts Stop 20.0 GHz
	Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
	M1 1 935.1 MHz +48.90 dBm	M1 1 6.708 GHz -30.18 dBm
	ProjectNo.:CR231164493Tester:One Luo	ProjectNo.:CR231164493Tester:One Luo
	Date: 7.DEC.2023 15:23:20	Date: 7.DEC.2023 15:23:48
	Spectrum Image: Comparison of the sector of th	Spectrum (m) Ref Level 30.00 dBm Offset 7.50 dB ● RBW 1 MHz
	Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep 1Pk Max	Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep
	M1[1] -50.00 d8m 844.10 MHz	M1[1] -29.84 dBm 6.9730 GHz
	0 d8m	20 d8m-
	-10 dBm 01 -13.000 dBm	10 dBm-
	-20 dBm	0.d8m
	-30 d8m	-10 dBm01 -13.000 dBm
	-40 dBm M1	-20 dam-
Middle	- 30 dBm - down where we want we want where we want where we want where we want we want want want want want want want want	-30 dem
	-60 dBm-	-40 d8m
	-70 dBm	-50 dBm
	-80 d8m	-60 dBm
	Start 30.0 MHz 501 pts Stop 1.0 GHz Marker	Start 1.0 GHz 501 pts Stop 20.0 GHz Marker
	Type Ref Trc X-value Y-value Function Function Result M1 1 844.1 MHz -50.00 d8m	Type Ref Trc X-value Y-value Function Function Result M1 1 6.973 GHz -29.84 dBm -
	Ensure AA	
	ProjectNo.:CR231164493Tester:One Luo Date: 7.DEC.2023 15:24:19	ProjectNo.:CR231164493Tester:One Luo Date: 7.DEC.2023 15:24:45
	Spectrum mm Ref Lovel 10.00 dBm Offset 7.50 dB @ RBW 100 kHz	Spectrum
	Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep PIPk Max	Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep PtPk Max
	0 dBm 0 dBm0 dBm	M1[1] -29.89 dBm 20 d\$m
	-10 dBm	
	-20 dBm 01 -13.000 dBm	10 d\$m
	-20 06m-	- 10 dBm
Highest		01 -13.000 dBm
	-40 dBm	-20 chm
	-50 dBm -60 dBm	- 30 cpm
	-00 dem	-40 UBM
	-70 dem-	-50 d8m
	Start 30.0 MHz 501 pts Stop 1.0 GHz Marker	Stort 1.0 GHz 501 pts Stop 20.0 GHz Marker
	Type Ref Trc X-value Y-value Function Function Result M1 1 868.7 MHz -49.60 dBm -49.60 dBm -49.60 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 5.949 GHz -29.89 dBm - - >
	() (MANAN B) 4/4	
	ProjectNo.:CR231164493Tester:One Luo Date: 7.DBC.2023 15:25:13	ProjectNo.:CR231164493Tester:One Luo Date: 7.DEC.2023 15:25:35
	anner cannot addited	W (1971), 1974), 1974), 1974), 1974)

	Spurious Emissions at An	tenna Terminal						
Channel	10MHz Bandwidth QPSK							
	Spectrum 🕎	Spectrum 🛱						
	Ref Level 10.00 d8m Offset 7.50 d8 RBW 100 kHz Att 30 d8 SWT 9.7 ms VBW 300 kHz Mode Auto Sweep	Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep						
	PIPk Max Max M1[1] -49,63 dBm	1Pk Max M1[1] -30.25 dim						
	0 dBm 840.30 MHz	20 dBm						
	-10 dBm 01 -13.000 dBm	10 dBm						
	-20 dBm	O dBm						
	-30 dBm	-10 dBm01 -13.000 dBm						
	-40 dām	-20 dam						
Lowest	-50 dem	-30 CBM						
	-60 dBm	40 dam						
	-70 dBm	-50 dBm						
	-80 d8m	-60 d8m						
	Start 30.0 MHz 501 pts Stop 1.0 GHz	Start 1.0 GHz 501 pts Stop 20.0 GHz						
	Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result						
	M1 1 840.3 MHz ~49.63 dBm	M1 1 6.101 GHz -30.25 dBm						
	ProjectNo.:CR2311644937ester:One Luo	ProjectNo.:CR231164493Tester:One Luo						
	Date: 7.DEC.2023 15:26:50	Date: 7.DEC.2023 15:27:09						
	Spectrum	Spectrum 🕎						
	Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep	Ref Level 30.00 dBm Offset 7.50 db # R3W 1 MHz Att 35 db SWT 76 ms # VBW 3 MHz Mode Auto Sweep IPE Max 0 IPE Max 10 MHz Mode Auto Sweep						
	M1[1] -49.60 dBm 944.80 MHz	M1[1] -29.97 dBm 6.9700 GHz						
	0 dBm-	20 d8m						
	-10 dBm 01 -13.000 dBm	10 dBm						
	-20 dBm	0 dBm-						
	-30 dBm	-10 dBm 01 -13.000 dBm						
	-40 dBm	-20 dBm						
Middle	-50 dBm was and when an an an and a show the show and a show the s	-30 den - when and the provide a particular and the second and the						
	-60 d6m	-40 dBm						
	-70 d8m	-50 dBm						
	-00 d6m.	-60 dBm-						
	Start 30.0 MHz 501 pts Stop 1.0 GHz	Stort 1.0 GHz 501 pts Stop 20.0 GHz						
	Marker Yupe Ref Trc X-value Y-value Function Function Result M1 1 944.8 MHz -49.60 d8m Function Function Result	Morker Type Ref Trc X-value Y-value Function Function Result M1 1 6.973 GHz -29.97 dBm						
	ProjectNo.:CR231164493Tester:One Luo	ProjectNo.ICR231164493TesteriOne Luo						
	Date: 7.DEC.2023 15:27:31	Date: 7.DBC.2023 15:27:54						
	Spectrum [] Ref Level 10.00 d≷m Offset 7.50 d8 ● RBW 100 kHz	Spectrum Ref Level 30.00 dBm Offset 7.50 dB @ RBW 1 MHz						
	Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max	Att 35 dB SWT 76 ms WBW 3 MHz Mode Auto Sweep						
	M1[1] -49.19 dBm 919.70 MHz	M1[1] -29.11 d8m 6.9350 GHz						
	0 dBm	20 d8m-						
	-10 dam 01 -13.000 dam	10 dam						
	-20 dBm	0 dBh						
	-30 dBm	-10 dBm D1 -13.000 dBm						
Highest	+40 dBm	-20 cbm						
	-30 dam water have been and the second of th	-30 cm						
	-60 dBm	-40 dBm						
	-70 dBm-	-50 dBm						
	-80 dBm	-60 d8m						
	Start 30.0 MHz 501 pts Stop 1.0 GHz	Stort 1.0 GHz 501 pts Stop 20.0 GHz						
	Marker Type Ref Trc X-value Y-value Function Function Result M1 1 919.7 MHz -49.19 dBm Function Function Result Function	Morker Type Ref Trc X-value Y-value Function Function Result M1 1 6.935 GHz -29.11 dBm						
	M1 1 919.7 MHz ~49.19 dBm	(m1) 1 0.935 (m2 *29.11 00m)						
	ProjectNo.:CR231164493Tester:One Luo	ProjectNo.:CR231164493Tester:One Luo						
	Date: 7.DEC.2023 15:28:19	Date: 7.DEC.2023 15:28:35						