



TEST REPORT

Applicant:	Shenzhen Xinguodu Technology Co., Ltd.
Address:	17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian District, Shenzhen, Guangdong, China.
Product Name:	POS terminal
FCC ID:	XDQCT20-01
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
Report Number:	2402T76961E-RF-00G
Report Date:	2024/6/22

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
1.0	2402T76961E-RF-00G	Original Report	2024/6/22	

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	POS Terminal
EUT Model:	CT20
Operation Bands and modes:	GPRS/EDGE: 850/1900 WCDMA: Band 2/4/5 LTE: Band 2/4/5/7
Modulation Type:	GMSK, 8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 9.0V from Adapter
Serial Number:	2LTC-1(Radiated Emission) 2LTC-4(RF Conducted Test)
EUT Received Date:	2024/5/23
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Specifications
Adapter	Jiangxi Jian Aohai	A931-090200W-	Input: 100-240Vac 50/60Hz 1.2A
	Technology Co., Ltd.	M2	Output: 9.0Vdc 2.0A 18.0W

1.3 Operation Voltage(V_{AC}) \blacktriangle :

Lowest: 102 Normal: 120	Highest: 138	8
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1.4 Transmission Antenna Information

Manufacturer	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain (G _T) (dBi)	Lc (dB)
		GSM850	824-849	-0.9	/
		PCS1900	1850-1910	-0.25	/
	FPC	WCDMA B2	1850-1910	-0.25	/
Sunnyway		WCDMA B4	1710-1755	1.25	/
Technology (China)Co., Ltd.		WCDMA B5	824-849	-0.9	/
		LTE B2	1850-1910	-0.25	/
		LTE B4	1710-1755	1.25	/
		LTE B5	824-849	-0.9	/
		LTE B7	2500-2570	3.34	/

1.5 Equipment Modifications

No modifications are made to the EUT during all test items.

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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	Radiated Spurious Emission	Compliant

3. ESCRIPTION OF TEST CONFIGURATION

3.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No
The maximum power was configured per 3	3GPP Standard for each operation modes as below setting:
GPRS/EGPRS	
Press Connection control to choose the dif Press RESET > choose all the reset all sett Connection Press Signal Off to turn Network Support > GSM + GPRS or GSM 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 BS Signal Enter the same channel Frequency Offset > + 0 Hz Mode > BCCH and TCH BCCH Level > -85 dBm (May nee	ings off the signal and change settings I + EGSM lot Config. off m on the right twice to select and change the number of time
TCH >choose desired tesHopping >OffMain Timeslot >3	eady set under MS signal) it channel CS4 (GPRS) and MCS5 (EGPRS)
Bit Stream >2E9-1 PSR Bit StreamAF/RFEnter appropriateConnectionPress Signal on to	eam offsets for Ext. Att. Output and Ext. Att. Input o turn on the signal and change settings

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WCDMA

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

	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		H	SUPA Loopba	ck			
WCDM	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	1 / 5	0		
	βec	20 /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						
HSDPA	DCQI	8						
Specific	Ack-Nack repetition	3						
Settings	factor							
Settings	CQI Feedback	4ms						
	CQI Repetition Factor							
	Ahs=βhs/ βc			30/15				
	DE-DPCCH	6		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 Data Rate k ps	242.1	174.9	482.8	205.8	308.9		
HSUPA Specific Settings	Referenc E_F 1	E-TFCI 11 E E-TFCI PO 4 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 E-TFCI PO 4 E-TFCI PO 18 E-TFCI PO 18 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	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	1
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".

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	
			3	>5	≤ 1	
			5	>6	≤1	
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	10	>6	≤1	
			15	>8	≤1	
			20	>10	≤ 1	
NS 04	6.6.2.2.2	41	5	>6	≤ 1	
NS_04	0.0.2.2.2	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	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2	
NS 08	6.6333	19	10, 15	> 44	≤3	
110_00	0.0.0.0.0			> 40	51	
NS_09	6.6.3.3.4	21	10, 15	> 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	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5	
NS_32			•	•		
Note 1: A	polies to the lower	block of Band 23, i.e	a carrier place	l in the 2000-201	0 MHz region	

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

3.2 Support Equipment List and Details

Manufacturer	Manufacturer Description		Serial Number
Kingston	USB Flash Disk	32G	EMZBUD21103001
SanDisk	TF Card	UHS-I-16G	9292DVDSV0XZ
ZIONCOM	Router	MB-R210-00	EMZBWR21103004
IPRO	.O Earphone		EMZBEP21103002B
Unknown	Cashbox	Unknown	EZ240214F212
DELL	Laptop	E6410ATG	EMZBPC21103004
Kingston	Kingston USB Flash Disk		EMZBUD21103001
Unknown	Antenna	Unknown	Unknown
R&S	Wideband Radio Communication Tester	CMW500	147473

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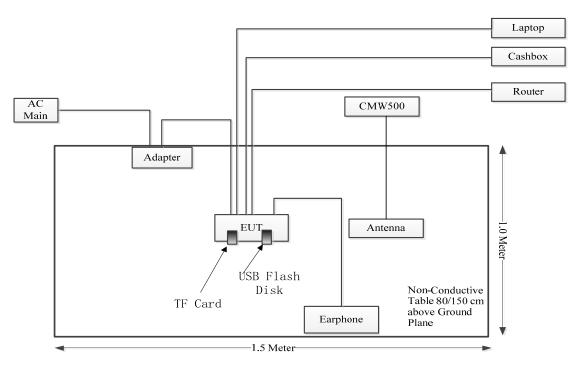
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Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
RJ45 Cable	yes	no	10	EUT	Router
Earphone Cable	no	no	0.8	earphone	EUT
USB Cable	no	no	10	Laptop	EUT
RS232 cable	yes	no	10	EUT	RS232 load
DC Cable	no	no	2.8	Adapter	EUT
Cashbox Cable	no	no	10	EUT	Cashbox

3.3 Support Cable List and Details

3.4 Block Diagram of Test Setup

Radiated Spurious Emission:



3.5 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.6 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	$\pm 5\%$
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
RF Frequency	$\pm 0.082 imes 10^{-6}$

4. REQUIREMENTS AND TEST PROCEDURES

4.1 Applicable Standard For Part 22 Subpart H:

4.1.1 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.

4.1.2 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

4.1.3 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

4.2 Applicable Standard For Part 24 Subpart E:

4.2.1 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.

4.2.2 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.

4.2.3 Frequency stability

FCC §24.235

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

4.3 Applicable Standard For Part 27:

4.3.1 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.

4.3.2 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;

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(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.

4.3.3 Frequency stability

FCC §27.54

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

4.4 Test Method:

4.4.1 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:

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 = $P_{Meas} + G_T - L_C$

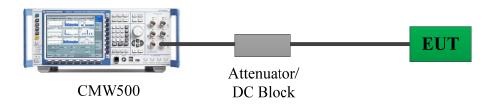
where:

ERP or EI	RP = effective radiated power or equivalent isotropically radiated power, respectively
	(expressed in the same units as P _{Meas} , typically dBW or dBm);
P	= measured transmitter output power or PSD in dBm or dBW:

P Meas	- measured transmitter output power of PSD, in dBm of dBw;
GT	= gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

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

Test Setup Block:



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

4.4.2 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 × RBW.

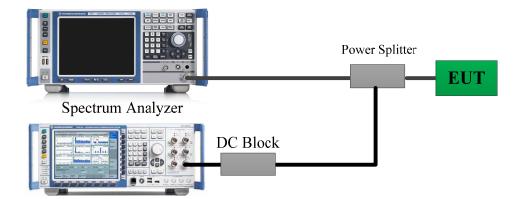
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

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:



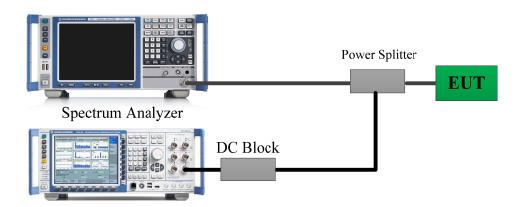
Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.4.3 Transmitter unwanted 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),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:



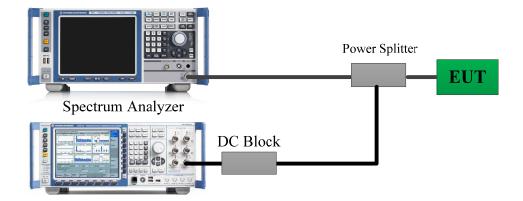
Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.4.4 Transmitter unwanted emissions-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:



Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.4.5 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:

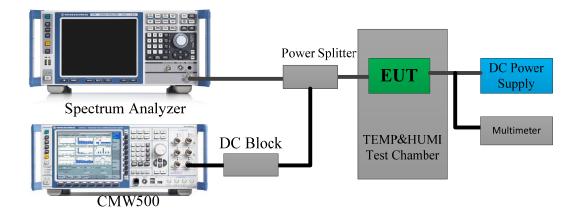
a) At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, and

b) At +20 °C temperature and $\pm 15\%$ 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:



4.4.6 Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

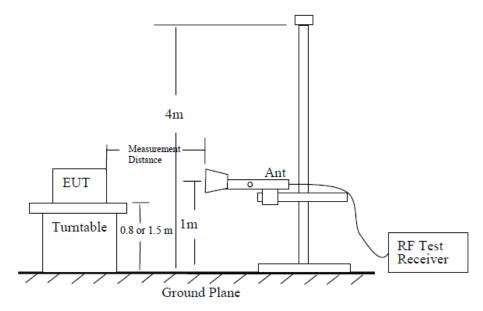
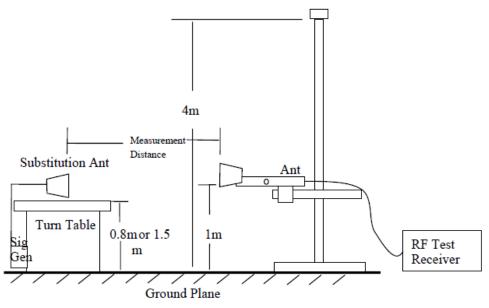


Figure 6-Test site-up for radiated ERP and/or EIRP measurements





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.

5. Test DATA AND RESULTS

5.1 Antenna Port Test Data and Results for GSM 850 band:

Serial Number:	2LTC-4	Test Date:	2024/5/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:						
Temperature: (°C)	25.9	Relative Humidity: (%)	66	ATM Pressure: (kPa)	100.1	

Test Equipment List and Details:								
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26			
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31			
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24			
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17			
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17			
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2			
Daoxiang	AC Transformer	TDGC2-5KVA	F-08-EM011	N/A	N/A			

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:

	Conducted 1	Peak Output Pow	eak Output Power(dBm) Maximum					
Test Mode	Lowest Channel	Middle Channel	Highest Channel	ERP (dBm)	ERP Limit (dBm)			
GPRS 1 Slot	33.58	33.68	33.77	30.72	38.45			
GPRS 2 Slots	33.64	33.6	33.66	30.61	38.45			
GPRS 3 Slots	33.48	33.45	33.59	30.54	38.45			
GPRS 4 Slots	33.31	33.26	33.48	30.43	38.45			
EDGE 1 Slot	27.49	27.26	26.85	24.44	38.45			
EDGE 2 Slots	27.41	27.8	27.66	24.75	38.45			
EDGE 3 Slots	27.27	27.61	27.76	24.71	38.45			
EDGE 4 Slots	27.11	27.4	27.31	24.35	38.45			
Note: ERP= Conducted Power(d GT(dBd)=GT(dBi)-2.15	Note: ERP= Conducted Power(dBm) - $L_C(dB) + G_T(dBd)$							

Result:

Pass

FCC §2.1049, §22.917, §22.905: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		
GPRS	0.243	0.243	0.245	0.317	0.32	0.318		
EDGE	0.239	0.239 0.24 0.24 0.31 0.31 0.307						
Note: The test r	lots please r	efer to the Plots of Ω	counied Bandwidth					

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

FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal

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

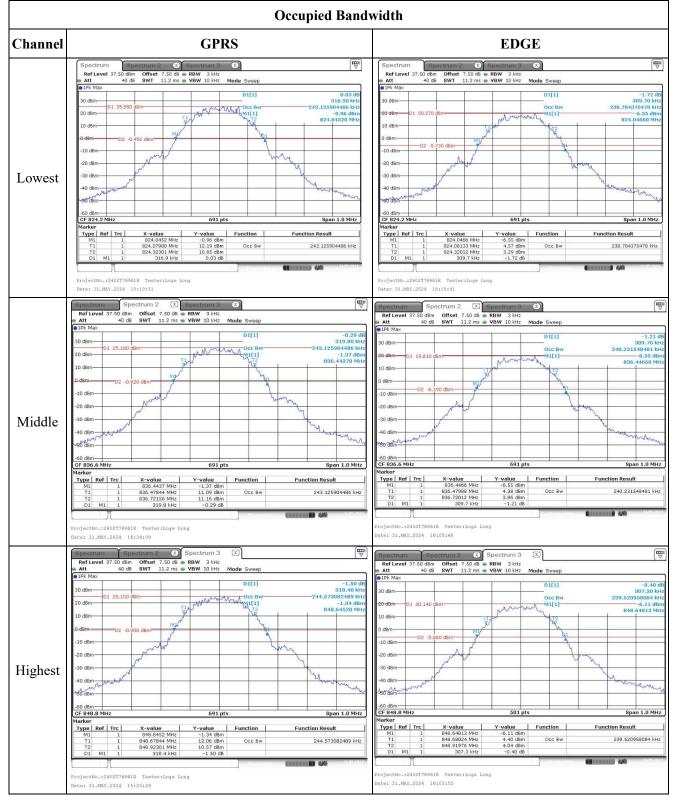
FCC §2.1051, §22.917(a):Out of band emission, Band Edge Pass, Please refer to the test plots of Out of band emission, Band Edge. **Result:**

Report No.: 2402T76961E-RF-00G

FCC §2.1055, §22.355: Frequency Stabilit	у				
Test Modulation:	GMSk	GMSK T		Channel:	MHz
Test Item	Temperature	Voltage	Freque	ency Error	Limit
Test Item	(°C)	(Vac)	(Hz)	(ppm)	(ppm)
	-30	120	-5.65	-0.007	2.5
	-20	120	-8.86	-0.011	2.5
	-10	120	2.62	0.003	2.5
	0	120	-9.1	-0.011	2.5
Frequency Stability vs. Temperature	10	120	-1.88	-0.002	2.5
	20	120	8.5	0.010	2.5
	30	120	3.81	0.005	2.5
	40	120	8.25	0.010	2.5
	50	120	1.33	0.002	2.5
	20	102	6.47	0.008	2.5
Frequency Stability vs. Voltage	20	138	-1.61	-0.002	2.5
				Result:	Pass

Test Modulation:	8PSK	8PSK		Test Channel:	
T+ 14	Temperature	Voltage	Freque	Frequency Error	
Test Item	(°C)	(Vac)	(Hz)	(ppm)	(ppm)
	-30	120	-6.65	-0.008	2.5
	-20	120	5.93	0.007	2.5
	-10	120	7.93	0.009	2.5
	0	120	-2.12	-0.003	2.5
Frequency Stability vs. Temperature	10	120	0.46	0.001	2.5
	20	120	-7.82	-0.009	2.5
	30	120	2.54	0.003	2.5
	40	120	9.07	0.011	2.5
	50	120	-3.38	-0.004	2.5
	20	102	1.23	0.001	2.5
Frequency Stability vs. Voltage	20	138	3.67	0.004	2.5
	·		•	Result:	Pass

Test Plots:

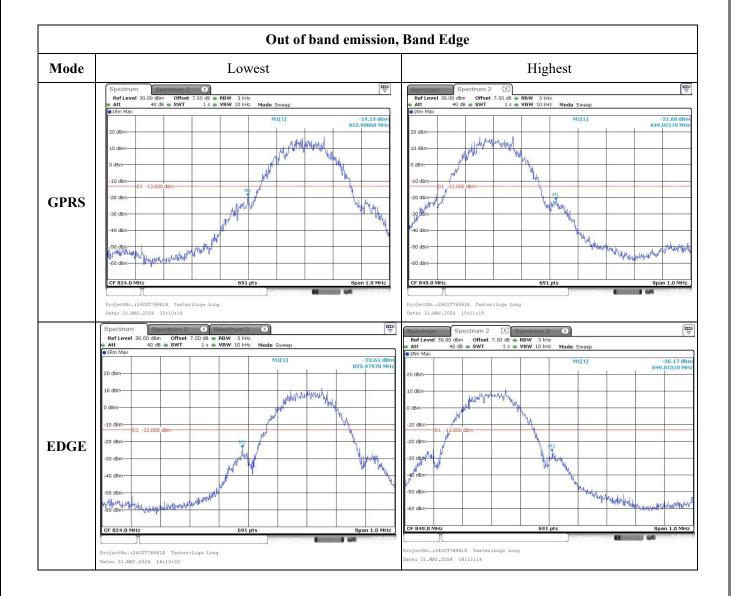


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Report No.: 2402T76961E-RF-00G

Channel	GPF	28
Channel	Spectrum Spectrum 2 3	Spectrum Spectrum 2 (E)
	Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz ● Att 40 dB SWT 9.7 ms ● VBW 300 kHz Mode Sweep	Spectrum Spectrum Comparison Comparison Ref Level 37.50 dB Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 3 dms VBW 3 MHz Mode Auto Sweep
	●1Pk Max	●1Pk Max P1Pk Max M1[1] -24.42 dBm S.7740 GH S.7740 GH
	30 UBII-	30 dom
	20 dBm	20 dBm
	0 d8m	0 d8m
	-10 d8m	-10 dBm
Lowest	01 -13.000 dBm	-20 dBm
	-30 dBm-	30 the words and a war war and we want the and the second of a second of the
	10 dan marine and a second and a second and a second and a second a second a second a second a second a second	-40 dBm
	-50 dBm	-50 dBm
	-60 d8m	-60 dBm
	No and the Market Ma	
	ProjectNo.12402776961E Tester:Loge Long Date: 31.MAY.2024 14:51:43	ProjectK6.12402776961E Tester:Loge Long Date: 31.MAY.2024 14:52:04
	Spectrum Spectrum Comparison Ref Level 37.50 dBm Offset 7.50 dB RBW 100 kHz Image: Comparison of the c	Spectrum Spectrum 2 (2)
	Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max	Ref Level 37.50 dBm Offset 7.50 dB RBW 1 MHz Att 40 dB SWT 36 ms VBW 3 MHz Mode Auto Sweep
	30 dBm	
	20 dBm-	20 d8m
	10 dBm	10 dBm
	0 d8m	0 d8m
Middle	-10 dBm 01 -13.000 dBm	-10 dBm 01 -13.000 dBm
Middle	-20 dBm	-20 dBm
	-30 dBm M1	-30 dB and the stand and the s
	40 dBm	-40 dBm
	-50 dBm-	-50 dBm
	-60 dBm	-60 dBm
	ProjectNo.:2402T76961E Tester:Loge Long	ProjectNo.:2402776961E Tester:Loge Long
	Date: 31.MAY.2024 14:53:39	Date: 31.MAY.2024 14:52:33
	Spectrum Spectrum Image: Construct of the section of	Spectrum 2 🛞
	Att 40 d8 SWT 9.7 ms VBW 300 kHz Mode Sweep IPk Max	Ref Level 37:50 dbm Offset 7.50 db RBW 1 MHz Att 40 db SWT 36 ms VBW 3 MHz Mode Auto Sweep 40 ms 40 ms
	30 dBm 887.00 MHz	30 dBm M1[1] -25.05 dBm S.9040 CH
	20 dBm	20 dBm
	10 dBm	10 dBm
	0 d8m	0 d8m
Highest	-10 dBm-	-10 dBm-01 -13.000 dBm-01 -13.0000 dBm-01 -13.000 dBm-01 -13.0000 dBm-01 -13.0000 dBm-01 -13.0000 dBm-01 -13.0000 dBm-01 -13.0000 dBm-01 -13.0000 dBm-01 -13.00000 dBm-01 -13.000000000000000000000000000000000000
inguest	-20 dBm-	-20 dBm - Million - Millio
	-30 d8m	So upin my www. My who
	40 dem	-40 dem
	-50 dBm	-50 dBm



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

Serial Number:	2LTC-4	Test Date:	2024/5/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.9	Relative Humidity: (%)	66	ATM Pressure: (kPa)	100.1

Test Equipment List and Details:					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183- S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
Daoxiang	AC Transformer	TDGC2- 5KVA	F-08-EM011	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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	

FCC§2.1046;§ 24.232 (c):RF Output Power					
	Conducted Peak Output Power(dBm)			Maximum	EIRP
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	Limit (dBm)
GPRS 1 Slot	30.7	30.59	30.99	30.74	33
GPRS 2 Slots	30.6	31.13	30.77	30.88	33
GPRS 3 Slots	30.45	30.58	30.74	30.49	33
GPRS 4 Slots	30.43	30.95	30.71	30.7	33
EDGE 1 Slot	27.26	26.99	27.34	27.09	33
EDGE 2 Slots	27.15	27.28	27.43	27.18	33
EDGE 3 Slots	27	27.47	27.53	27.28	33
EDGE 4 Slots	26.87	27.38	27.33	27.13	33
Note: EIRP=Conducted Power(dBm)	Note: EIRP=Conducted Power(dBm) - $L_c(dB) + G_T(dBi)$				
				Result:	Pass

FCC §2.1049, §24.238:Occupied Bandwidth						
	99%	Occupied Band (MHz)	dwidth	26 dB	Occupied Band (MHz)	width
Operation Mode	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GPRS	0.246	0.243	0.243	0.323	0.326	0.318
EDGE	0.245	0.246	0.245	0.314	0.31	0.313
Note: The test plots please refer to the Plots of Occupied Bandwidth						

FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal			
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.		

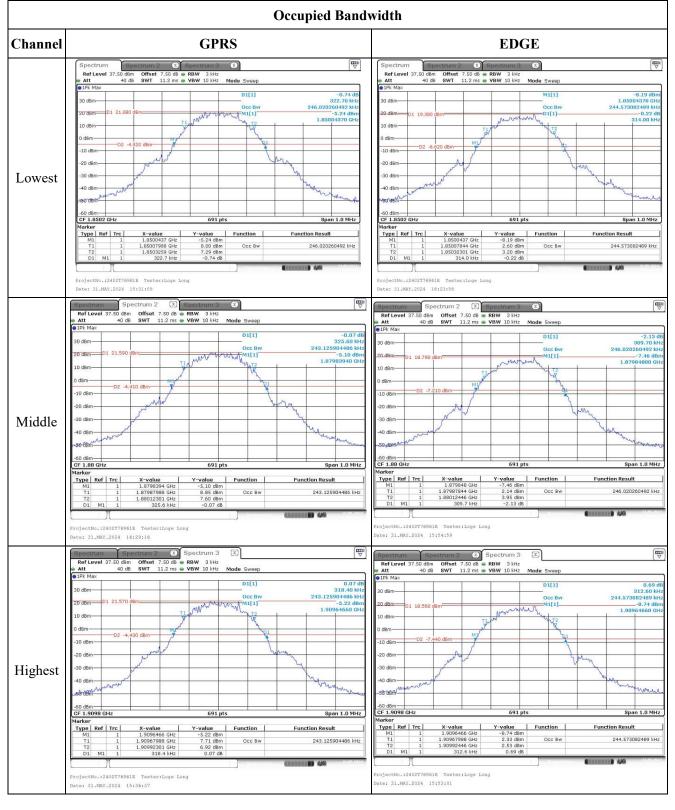
FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge				
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.			

FCC §2.1055, §24.235: Frequency Stability							
Test Mode:	GMSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge					
Test Item	Temperature (°C)	Voltage (VAC)	Lower Edge (MHz)		Upper Edge (MHz)		
			Result	Limit	Result	Limit	
Frequency Stability vs. Temperature	-30	120	1850.041	1850.000	1909.908	1910.000	
	-20	120	1850.068	1850.000	1909.914	1910.000	
	-10	120	1850.074	1850.000	1909.920	1910.000	
	0	120	1850.062	1850.000	1909.896	1910.000	
	10	120	1850.059	1850.000	1909.920	1910.000	
	20	120	1850.080	1850.000	1909.923	1910.000	
	30	120	1850.089	1850.000	1909.944	1910.000	
	40	120	1850.098	1850.000	1909.932	1910.000	
	50	120	1850.101	1850.000	1909.944	1910.000	
Frequency Stability vs. Voltage	20	102	1850.086	1850.000	1909.935	1910.000	
	20	138	1850.086	1850.000	1909.947	1910.000	
				·	Result:	Pass	

Test Mode:	8PSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (VAC)	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	120	1850.042	1850.000	1909.912	1910.000
	-20	120	1850.072	1850.000	1909.921	1910.000
	-10	120	1850.051	1850.000	1909.912	1910.000
	0	120	1850.054	1850.000	1909.903	1910.000
	10	120	1850.054	1850.000	1909.903	1910.000
	20	120	1850.078	1850.000	1909.924	1910.000
	30	120	1850.081	1850.000	1909.948	1910.000
	40	120	1850.099	1850.000	1909.948	1910.000
	50	120	1850.081	1850.000	1909.930	1910.000
Frequency Stability vs. Voltage	20	102	1850.105	1850.000	1909.930	1910.000
	20	138	1850.090	1850.000	1909.942	1910.000
					Result:	Pass

Report No.: 2402T76961E-RF-00G

Test Plots:

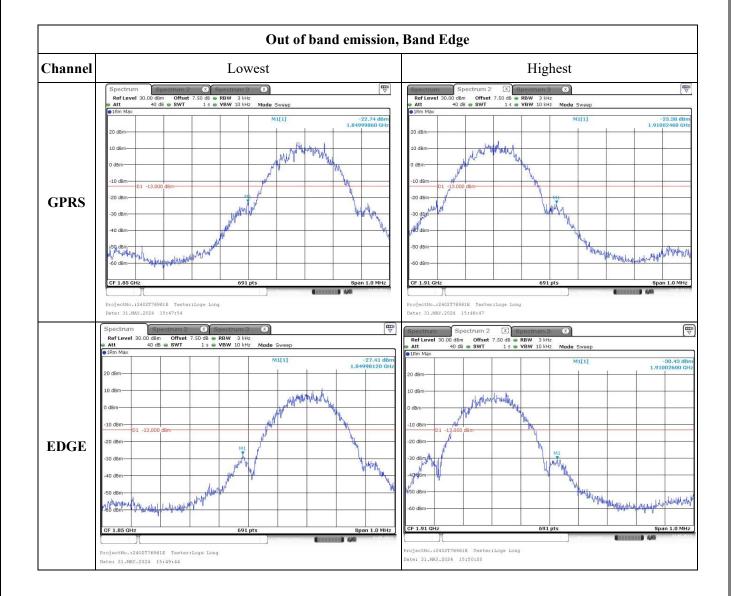


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Report No.: 2402T76961E-RF-00G

	Spurious Emissions at An	tenna Terminal						
Channel	GPRS							
Lowest	Spectrum Spectrum 2 Spectrum 3 W Rof Level 37.50 dbm Offset 7.50 db RBW 100 Hz Made Sweep Alt 40 db SWT 9.7 ms VBW 300 Hz Made Sweep 10 dbm 10 dbm 92.10 MHz 92.10 MHz 92.10 MHz 20 dbm 10 dbm 10 dbm 10 dbm 10 dbm 10 dbm 01 -13 000 dbm 10 dbm 10 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 11 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 11 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 11 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 11 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 11 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 10 dbm 11 dbm 10 dbm 01 -13 000 dbm 10 dbm 10 dbm 11 dbm 10 dbm 10 -13 000 dbm 13 dbm 10 dbm 10 dbm 10 d	Spectrum Spectrum						
Middle	Spectrum Spectrum 2 Spectrum 3 The sector of the set of th	Spectrum Spectrum						
Highest	Date: 33.8W/.2024 15:41:49 Spectrum Spectrum </td <td>Solution Spectrum Spectrum</td>	Solution Spectrum Spectrum						



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

Serial Number:	2LTC-4	Test Date:	2024/5/31~2024/6/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:						
Temperature: (℃)	25.9~26	Relative Humidity: (%)	64~66	ATM Pressure: (kPa)	100.1~100.8	

Test Equipment List and Details:							
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26		
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31		
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183- S+	SF448201614	2024/2/25	2025/2/24		
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17		
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17		
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2		
Daoxiang	AC Transformer	TDGC2- 5KVA	F-08-EM011	N/A	N/A		

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:

FCC82.1046:8 24.232

	Conducted A	verage Output	Power(dBm)	Maximum	
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	EIRP Limit (dBm)
WCDMA R99	23.44	23.47	23.42	23.22	33
HSDPA Subtest 1	20.36	20.7	20.8	20.55	33
HSDPA Subtest 2	20.44	20.57	20.64	20.39	33
HSDPA Subtest 3	20.62	20.51	20.76	20.51	33
HSDPA Subtest 4	20.57	20.36	20.73	20.48	33
HSUPA Subtest 1	20.85	21.01	21.12	20.87	33
HSUPA Subtest 2	20.69	20.91	21.24	20.99	33
HSUPA Subtest 3	20.79	20.75	21.12	20.87	33
HSUPA Subtest 4	20.81	20.72	20.98	20.73	33
HSUPA Subtest 5	20.85	20.65	21.1	20.85	33

Result: Pass

Peak-to-average Ratio(PAR)					
	Peak	-to-average Ratio			
Test Mode	Lowest Channel	Middle Channel	Highest Channel	Limit (dB)	
WCDMA R99	3.19	3.19	3.1	1	3
HSDPA	4.58	5.07	4.61	1	3
HSUPA	5.42	5.36	5.19	13	
				Result:	Pass

FCC §2.1049, §24.238:Occupied Bandwidth								
	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)				
Operation Mode	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel		
WCDMA R99	4.124	4.124	4.139	4.718	4.718	4.732		
HSDPA	4.139	4.139	4.124	4.747	4.732	4.747		
HSUPA	4.124	4.139	4.124	4.761	4.747	4.747		
Note: The test plots	Note: The test plots please refer to the Plots of Occupied Bandwidth							

FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal. **Result:**

FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge

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

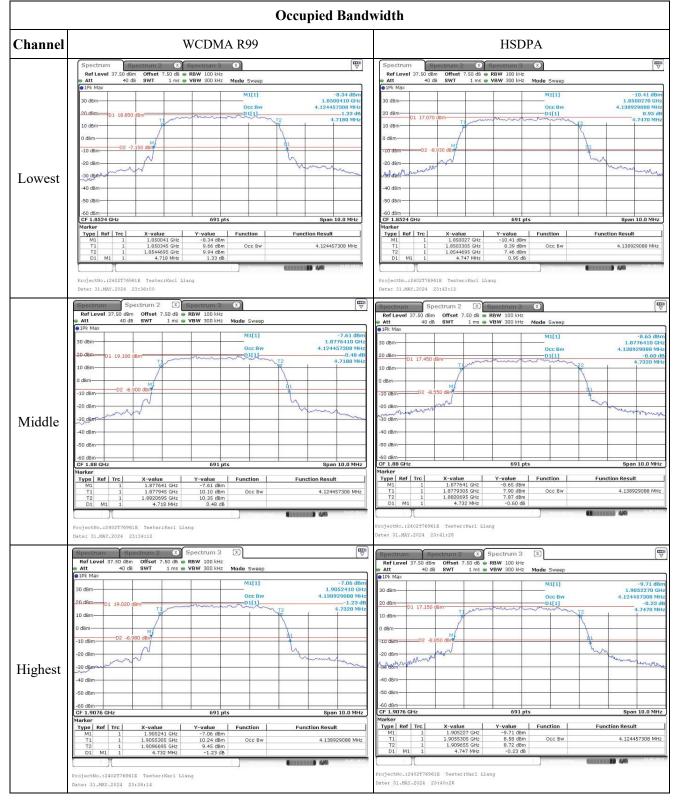
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FCC §2.1055, §24.235: Frequency Stability							
Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge					
Test Item	Temperature	Voltage		r Edge Hz)		: Edge Hz)	
	(°C)	(Vac)	Result	Limit	Result	Limit	
	-30	120	1850.297	1850.000	1909.664	1910.000	
	-20	120	1850.324	1850.000	1909.667	1910.000	
	-10	120	1850.327	1850.000	1909.658	1910.000	
Frequency	0	120	1850.336	1850.000	1909.646	1910.000	
Stability vs.	10	120	1850.321	1850.000	1909.646	1910.000	
Temperature	20	120	1850.345	1850.000	1909.670	1910.000	
	30	120	1850.363	1850.000	1909.682	1910.000	
	40	120	1850.354	1850.000	1909.694	1910.000	
	50	120	1850.363	1850.000	1909.685	1910.000	
Frequency	20	102	1850.360	1850.000	1909.691	1910.000	
Stability vs. Voltage	20	138	1850.357	1850.000	1909.673	1910.000	
	•		•	•	Result:	Pass	

Report No.: 2402T76961E-RF-00G

Test Plots:

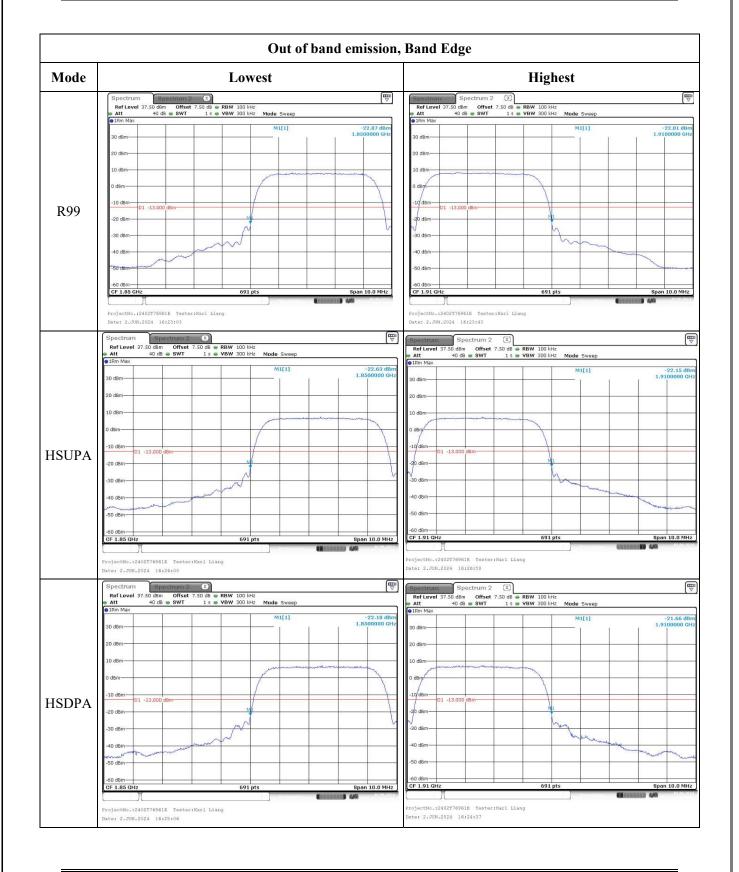


Report No.: 2402T76961E-RF-00G

	Occupied Bandwidth
Channel	HSUPA
Lowest	FIGURE Spectrum 2
Middle	Spectrum Spectrum 2 Spectrum 3 Tmp Ref Level 37.50 dem Offset 7.50 de Ref W 100 kHz Node Swep • DFK Max
Highest	Spectrum Spectrum

Report No.: 2402T76961E-RF-00G

	Spurious Emissions at An	itenna Terminal
Channel	WCDM	IA R99
	Spectrum Spectrum Image: Constraint of the c	Spectrum Spectrum 2 X Ref Level 37.50 dbm Offset 7.50 db RBW 1 MHz V Att 40 db SWT 76 ms VBW 3 MHz Mode Sweep • DRK Max • Offset 7.50 dbm • OBW MHz Mode Sweep
	30 dBm	30 dBm 12,296 dBm 12,7040 GHz 1
	10 dBm	10 dBm-
Lowest	20 dBm	20 dsm
	SO dBm General Control Contro Control Contron Control Control Contron Control Control Control	-50 d8m
	ErojectNo.;2402776961E Tester:Karl Llang Date: 1.JUN.2024 00:33:01	Projectko.i2402776961E TesteriKarl Liang Dates 1.JUN.2024 00:33:28
	Spectrum Spectrum The sector The sector<	Spectrum Spectrum 2 Image: Constraint of the c
	30 dBm 908.10 MHz 20 dBm 10 dBm	30 d8m M1[1] -24.41 d8m 20 d8m 16.2740 GHz 16.2740 GHz 10 d8m 10 d8m 10 d8m
	0 dBm	0 d8m- -10 d8m- -20 d8m- 01 -13.000 d8m-
Middle	-30 dBm	-32 Bar here the the the second and the second seco
	-50 dBm -60 dBm -60 dBm -60 dBm -80	-50 dBm -60 dBm -60 dBm Stort 1.0 GHz Stop 20.0 GHz Morker Type Ref Trc X-value Y-value Function Function Result
	MI I 008.1 MH2 -39.80 dBm Frojectho.124027769618 Testerikarl Liang Date: 1.JUN.2024 0032128	M1 3 16.274 GHz -24.41 dBm Frojection:200276961E Tester:Narl Liang 000000000000000000000000000000000000
	Spectrum Spectrum ™ Ref Level 37.50 dbm Offset 7.50 db RBW 100 kHz ™ Att 40 db SWT 9.7 ms VBW 300 kHz Mode Sweep © JPK Max </td <td>Spectrum Spectrum 2 Image: Constraint of the constraint of the</td>	Spectrum Spectrum 2 Image: Constraint of the
	30 dbm M1[1] -39.09 dbm 20 dbm B49.10 MHz	20 d8m 16.4390 GHz
	10 dBm	10 dBm
Highest	-20 dBm	20 dem- 39 dem- 40 dem-
	-50 dBm -60 dBm -60 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz Marker Type [Ref Trc X-value Y-value Function Function Result	-50 dBm -60 dBm -60 dBm Stort 1.0 GHz 691 pts Stop 20.0 GHz Marker Type Ref Trc X-value Y-value Function Function Result
	Type Ref Trc X-value Function Function Result M1 1 849.1 MHz -39.89 dBm -39.89 dBm <t< td=""><td>Mil 1 16.439 642 -23.39 Particular Kessak ProjectNo.:2402776961E Tester:Karl Liang 000000000000000000000000000000000000</td></t<>	Mil 1 16.439 642 -23.39 Particular Kessak ProjectNo.:2402776961E Tester:Karl Liang 000000000000000000000000000000000000



J.+ Antenna I oft I	Antenna i ort i est data and Results for WCDWA dand 4.							
Serial Number:	2LTC-4	Test Date:	2024/5/31~2024/6/2					
Test Site:	RF	Test Mode:	Transmitting					
Tester:	Karl Liang	Test Result:	Pass					

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

F	Environmental Conditions:							
	Temperature: (°C)	25.9~26	Relative Humidity: (%)	64~66	ATM Pressure: (kPa)	100.1~100.8		

Fest Equipment List and Details:						
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26	
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31	
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183- S+	SF448201614	2024/2/25	2025/2/24	
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17	
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17	
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2	
Daoxiang	AC Transformer	TDGC2- 5KVA	F-08-EM011	N/A	N/A	

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:

	Conducted A	verage Output	Power(dBm)	Maximum	EIRP
Test Mode	Lowest Channel	Middle Channel	Highest Channel	EIRP (dBm)	Limit (dBm)
WCDMA R99	23.35	23.48	23.39	24.73	30
HSDPA Subtest 1	21.5	21.46	21.31	22.75	30
HSDPA Subtest 2	21.43	21.43	21.27	22.68	30
HSDPA Subtest 3	21.47	21.35	21.23	22.72	30
HSDPA Subtest 4	21.44	21.25	21.22	22.69	30
HSUPA Subtest 1	21.86	21.9	21.8	23.15	30
HSUPA Subtest 2	21.86	21.9	21.8	23.15	30
HSUPA Subtest 3	21.78	21.88	21.83	23.13	30
HSUPA Subtest 4	21.85	21.84	21.87	23.12	30
HSUPA Subtest 5	21.87	21.75	21.85	23.12	30

Result: Pass

Peak-to-average Ratio(PAR)					
	Peak-to-average Ratio(dB)			T • •	
Test Mode	le Lowest Middle Highest Channel Channel Channel			Limit (dB)	
WCDMA R99	2.99	3.13	3.04	13	
HSDPA	4.58	5.07	4.32	13	
HSUPA	4.64	4.87	4.55	13	
				Result:	Pass

FCC §2.1049, §27.53:Occupied Bandwidth						
Ormetice Made	99%	99% Occupied Bandwidth (MHz)		26 dB Occupied Bandwidth (MHz)		
Opration Mode	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.124	4.124	4.124	4.732	4.718	4.732
HSDPA	4.124	4.139	4.124	4.732	4.747	4.718
HSUPA	4.124	4.139	4.124	4.761	4.761	4.732
Note: The test plots plea	ase refer to the	Plots of Occupie	d Bandwidth			

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

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

FCC §2.1051, § 27.53:Out of band emission, Band Edge

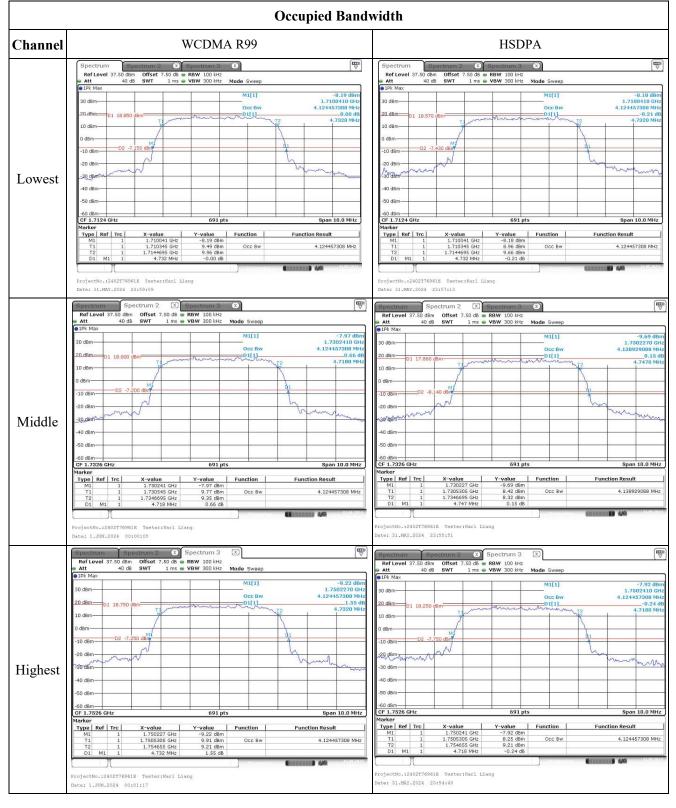
Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				Edge
Test Item	Temperature Voltage	Lower Edge (MHz)		Upper Edge (MHz)		
	(°C)	(Vac)	Result	Limit	Result	Limit
	-30	120	1710.309	1710.000	1754.640	1755.000
	-20	120	1710.327	1710.000	1754.628	1755.000
	-10	120	1710.336	1710.000	1754.631	1755.000
	0	120	1710.318	1710.000	1754.637	1755.000
Frequency Stability vs. Temperature	10	120	1710.333	1710.000	1754.637	1755.000
remperature	20	120	1710.345	1710.000	1754.655	1755.000
	30	120	1710.366	1710.000	1754.682	1755.000
	40	120	1710.369	1710.000	1754.676	1755.000
	50	120	1710.351	1710.000	1754.667	1755.000
Frequency Stability vs.	20	102	1710.357	1710.000	1754.670	1755.000
Voltage	20	138	1710.351	1710.000	1754.664	1755.000
					Result:	Pass

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Test Plots:



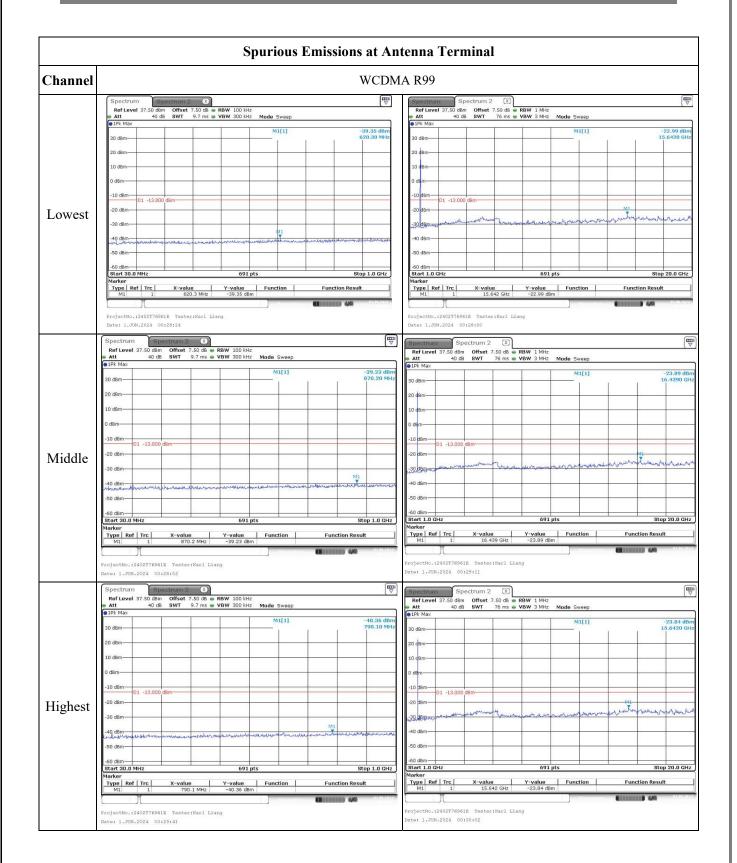
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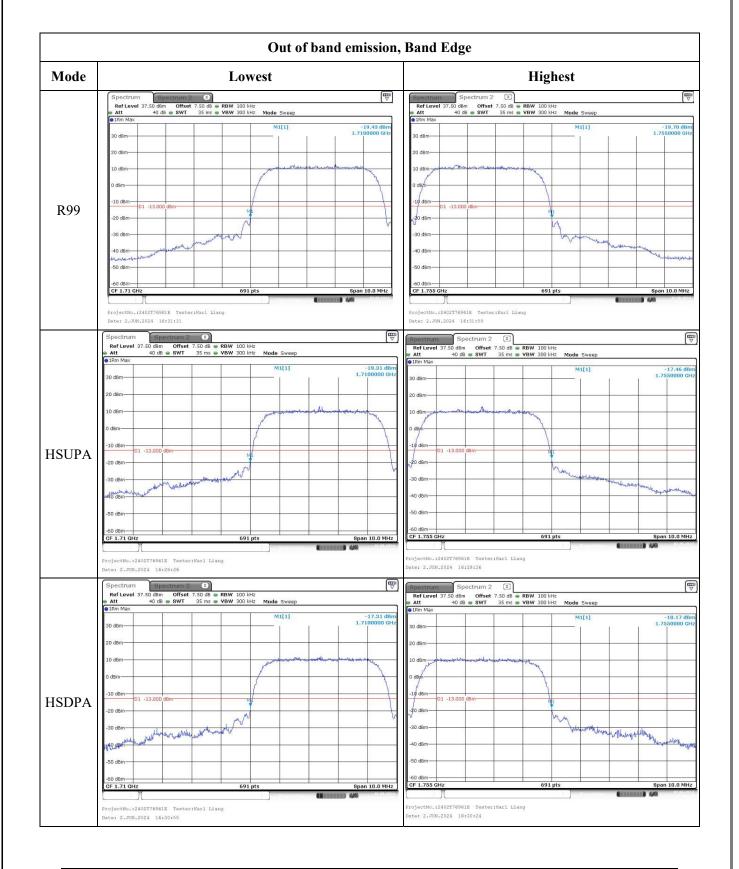
Report No.: 2402T76961E-RF-00G

	Occupied Bandwidth
Channel	HSUPA
Lowest	Spectrum
Middle	Spectrum Spectrum 2 Spectrum 3 Image: Control of the set o
Highest	Spectrum Spectrum 2 Spectrum 3 (2) (2) Ref Level 37.50 db Officet 7.50 db Ref W 100 kHz Mode Swep (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)

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3.3 Anten	5.5 Antenna 1 oft 1 est Data and Results for WCDWA Danu 5.						
Seri	al Number:	2LTC-4	Test Date:	2024/5/31~2024/6/2			
	Test Site:	RF	Test Mode:	Transmitting			
	Tester:	Karl Liang	Test Result:	Pass			

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

Environmental Conditions:							
Temperatur (°C	25.9~26	Relative Humidity: (%)	64~66	ATM Pressure: (kPa)	100.1~100.8		

Test Equipment List and Details:						
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26	
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31	
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183- S+	SF448201614	2024/2/25	2025/2/24	
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17	
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17	
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2	
Daoxiang	AC Transformer	TDGC2- 5KVA	F-08-EM011	N/A	N/A	

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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			

FCC§2.1046;§ 22.913 (a) RF Output Power :					
	Conducted .	Average Output	Power(dBm)	Maximum	
Test Mode	Lowest Channel	Middle Channel	Highest Channel	ERP (dBm)	ERP Limit (dBm)
WCDMA R99	23.94	24.03	24	20.98	38.45
HSDPA Subtest 1	22.09	22.12	22.46	19.41	38.45
HSDPA Subtest 2	22.16	22.08	22.38	19.33	38.45
HSDPA Subtest 3	22.19	22.18	22.4	19.35	38.45
HSDPA Subtest 4	22.21	22.19	22.39	19.34	38.45
HSUPA Subtest 1	22.39	22.75	22.52	19.7	38.45
HSUPA Subtest 2	22.45	22.72	22.54	19.67	38.45
HSUPA Subtest 3	22.47	22.75	22.63	19.7	38.45
HSUPA Subtest 4	22.55	22.68	22.72	19.67	38.45
HSUPA Subtest 5	22.47	22.61	22.69	19.64	38.45

Result:

Pass

Peak-to-average Ratio(PAR)					
Test Mode	Peak-to-average Ratio(dB)			T incid	
	Lowest Channel	Middle Channel	Highest Channel	Limit (dB)	
WCDMA R99	3.22	3.07	3.13	13	
HSDPA	4.7	4.61	4.67	13	
HSUPA	5.01	5.48	6.09	13	
				Result:	Pass

FCC §2.1049, §22.917, §22.905: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	4.124	4.139	4.139	4.732	4.747	4.732		
HSDPA	4.182	4.197	4.182	5.847	6.078	5.268		
HSUPA	4.211	4.226	4.197	6.165	5.991	5.774		
Note: The test plots please refer to the Plots of Occupied Bandwidth								

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FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal

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

FCC §2.1051, §22.917(a):Out of band emission, Band Edge

Result:

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

FCC §2.1055, §22.355: Frequency Stability

Test Modulation:	WCDMA R99		Test Channel:		MHz
Test Item	Temperature	Voltage	Frequency Error		Limit
	(°C)	(V _{AC})	(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	120	-2.54	-0.003	2.5
	-20	120	8.96	0.011	2.5
	-10	120	-2.62	-0.003	2.5
	0	120	-8.15	-0.010	2.5
	10	120	-3.08	-0.004	2.5
	20	120	-3.41	-0.004	2.5
	30	120	0.96	0.001	2.5
	40	120	-1.93	-0.002	2.5
	50	120	9.35	0.011	2.5
Frequency Stability vs. Voltage	20	102	4.64	0.006	2.5
	20	138	-3.79	-0.005	2.5
				Result:	Pass