



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Gosafe Company Limited

Address: RM 1105, the Innovation Building C1 No. 182 Kexue Avenue, Science City, Guangzhou, China

FCC ID: RSRP-G737

Product Name: GPS Tracker

Standard(s): 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27
47 CFR Part 90
ANSI C63.26-2015

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

Report Number: 2403X65150E-RF-00B

Date Of Issue: 2024/10/10

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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.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403X65150E-RF-00B	Original Report	2024/10/10

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

General:

EUT Name:	GPS Tracker
EUT Model:	G737
Operation Bands and modes:	WCDMA: Band 2/4/5 LTE Cat 1: Band 2/4/5/12/13/25/26
Modulation Type:	BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 5V charging from adapter or DC 3.7V from battery
Sample Number:	2RL8-1(for RF Conducted Test) 2RL8-2(for Radiated Spurious Emissions)
EUT Received Date:	2024/9/14
EUT Received Status:	Good

Operation Voltage(V_{DC}) ▲:

Lowest:	3.4	Normal:	3.7	Highest:	4.2
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Antenna Information ▲:

Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(GT) (dBi)	LC (dB)
PCB	WCDMA B2	1850-1910	-0.25	0
	WCDMA B4	1710-1755	0.53	0
	WCDMA B5	824-849	-2.65	0
	LTE B2	1850-1910	-0.25	0
	LTE B4	1710-1755	0.53	0
	LTE B5	824-849	-2.65	0
	LTE B12	699-716	-8.34	0
	LTE B13	777-787	-7.19	0
	LTE B25	1850-1915	-0.25	0
	LTE B26	814-849	-2.65	0

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

Accessory Information:

Accessory Description	Manufacturer	Model
Adapter	Shenzhen Coolwolf Technology Co., Ltd	H0121-0500200I

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode. LTE Category is 1, 16QAM only support 25%RB
Equipment Modifications:	No
EUT Exercise Software:	No

The maximum power was configured per 3GPP Standard for each operation modes as below setting:

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
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β	11/15	6/15	1 /15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30 /15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs}=\beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	A Index	20	12	1	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k ps	242.1	174.9	82.8	205.8	308.9
	Reference E_FCI	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27

LTE (FDD):

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

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

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

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

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

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

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

1.2.2 Support Equipment List and Details

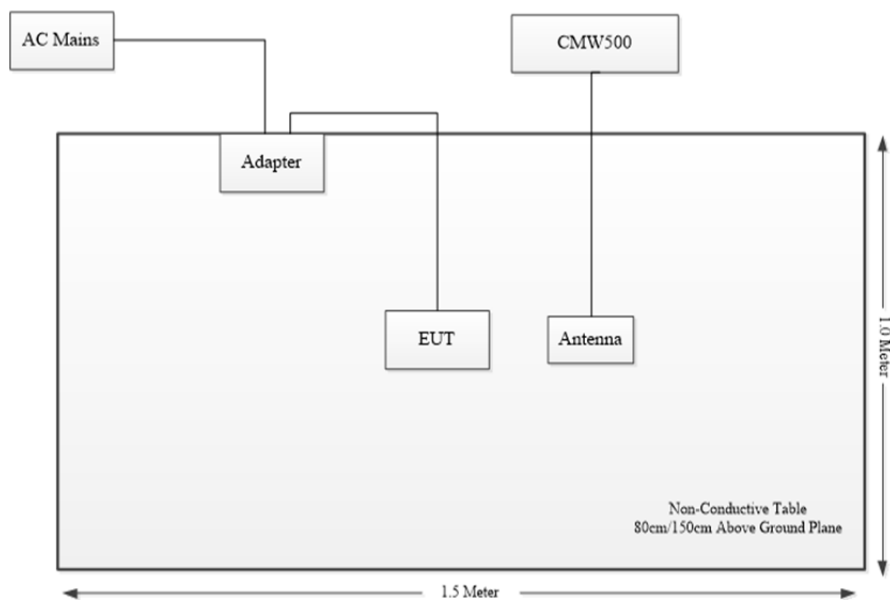
Manufacturer	Description	Model	Serial Number
Unknown	Antenna	Unknown	Unknown

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	2	Adapter	EUT
Coaxial-Cable	Yes	No	10	Antenna	CMW500

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	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Power Spectral Density, conducted	$\pm 0.61\text{ dB}$
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	$\pm 1.26\text{ dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
RF Frequency	$\pm 0.082 \times 10^{-6}$

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§2.1046; §22.913; §27.50; § 24.232; §90.635	RF Output Power	PASS
FCC§2.1046; § 24.232; §27.50; §22.913; §90.635	Peak-to-average Ratio(PAR)	PASS
FCC§2.1049; §27.53; §22.905, §22.917; § 24.238; §90.691	Occupied Bandwidth	PASS
FCC§2.1051; §27.53; §22.917; § 24.238; §90.691	Spurious Emissions at Antenna Terminal	PASS
FCC§2.1051; § 24.238; §22.917; §27.53; §90.691	Out of band emission,Band Edge	PASS
FCC§ 2.1055; §27.54; § 24.235; § 22.355; §90.213	Frequency stability vs. temperature &Frequency stability vs. voltage Compliance	PASS
FCC§ 2.1053; § 22.917; §27.53; § 24.238; §90.691	Field Strength of Spurious Radiation	PASS

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-to-average 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 rms equivalent 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., 100kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

3.1.3 Frequency stability

FCC §22.355

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

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

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

3.2 Applicable Standard For Part 24 Subpart E:

3.2.1 RF Output Power

FCC §24.232

(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

3.2.2 Spurious Emissions

FCC §24.238

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

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

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

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

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

3.2.3 Frequency stability

FCC §24.235

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

3.3 Applicable Standard For Part 27:

3.3.1 RF Output Power

FCC §27.50

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

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

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

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

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

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

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

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

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

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

3.3.2 Spurious Emissions

FCC §27.53

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

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

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

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

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

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

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

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

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

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

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

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

(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the

purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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

(h) AWS emission limits

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

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

3.3.3 Frequency stability

FCC §27.54

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

3.4 Applicable Standard For Part 90:

3.4.1 RF Output Power

FCC §90.635

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

3.4.2 Spurious Emissions

FCC §90.691

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

3.4.3 Frequency stability

FCC §90.213

809-824 MHz band, 2.5ppm for 2W or less output power.

3.5 Test Method:

3.5.1 RF Output Power

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

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

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

where:

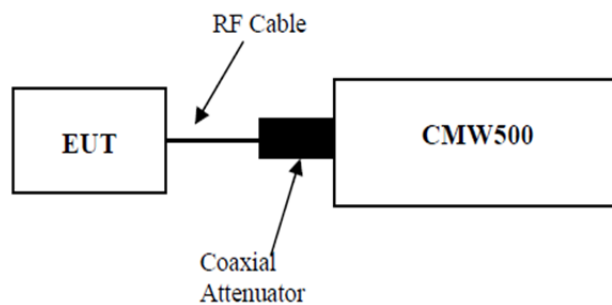
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

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

Test Setup Block:



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

3.5.2 Occupied Bandwidth

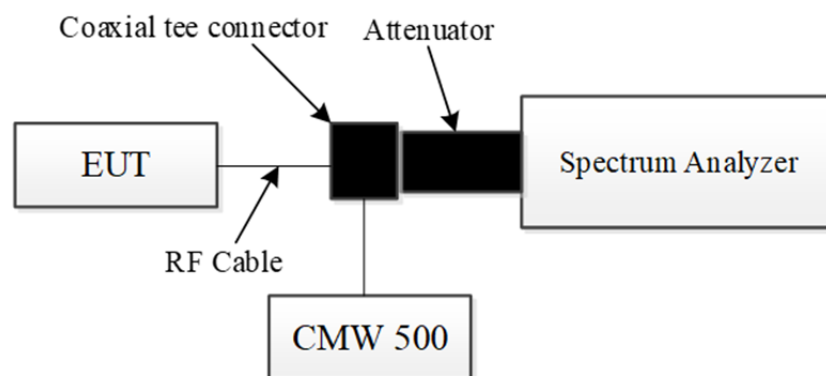
According to CFR Part 2.1049, ANSI C63.26-2015 Section 5.4.4

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

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

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

Test Setup Block:

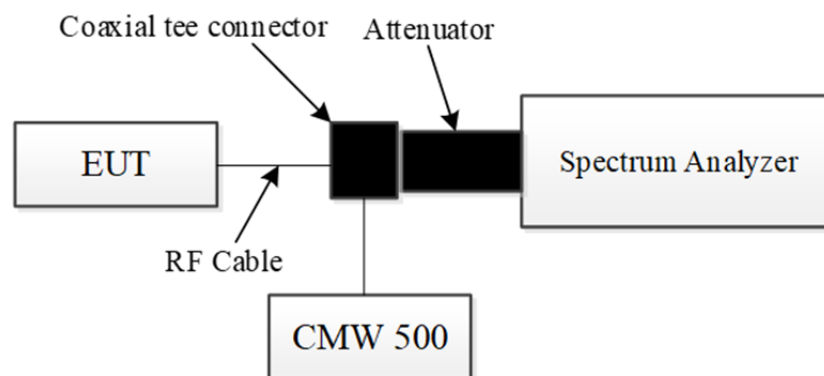


3.5.3 Transmitter unwanted emissions-at antenna terminals

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:

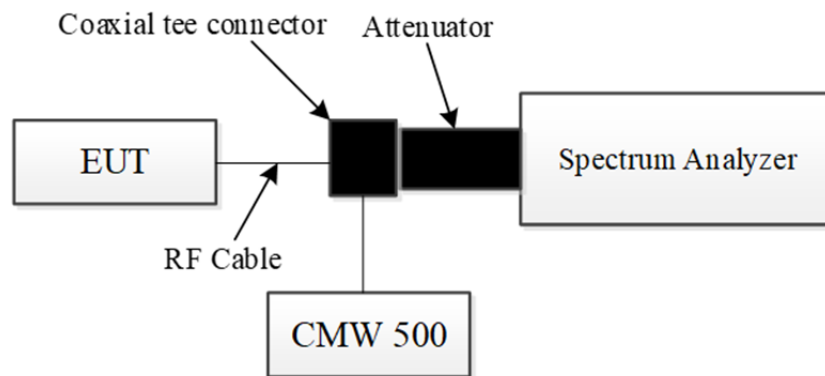


3.5.4 Out of band emission

According to ANSI C63.26-2015 Section 5.7.3:

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

Test Setup Block:



3.5.5 Frequency stability

According to ANSI C63.26-2015 Section 5.6:

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

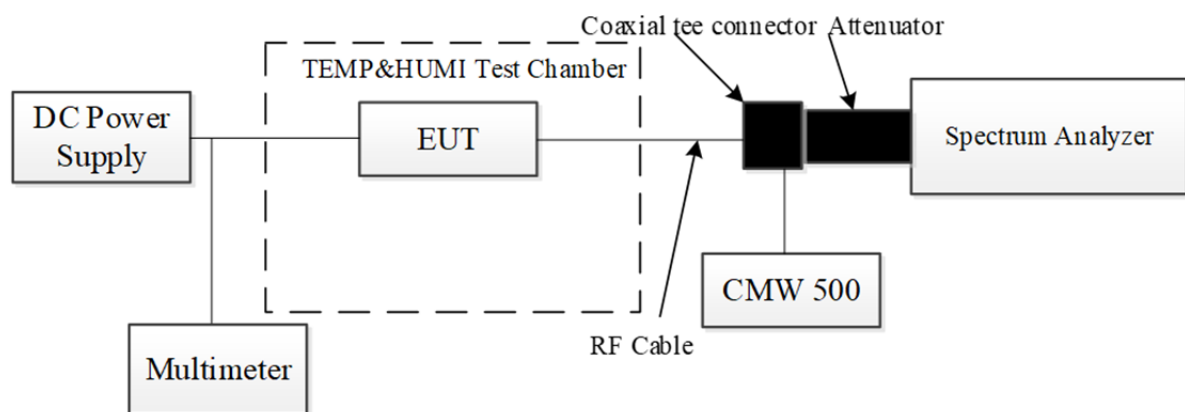
The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is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

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

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

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

Test Setup Block:



3.5.6 Transmitter unwanted emissions-Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

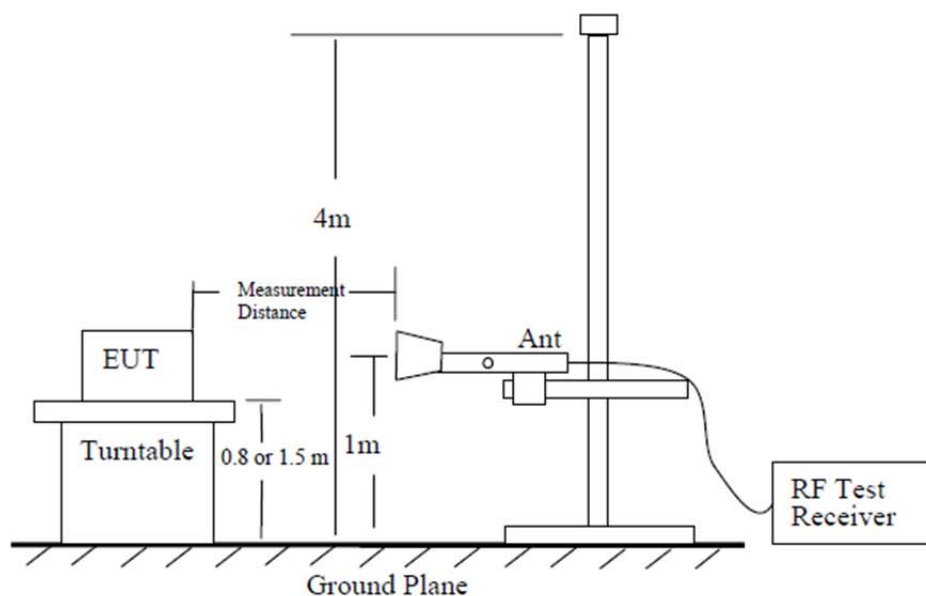


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

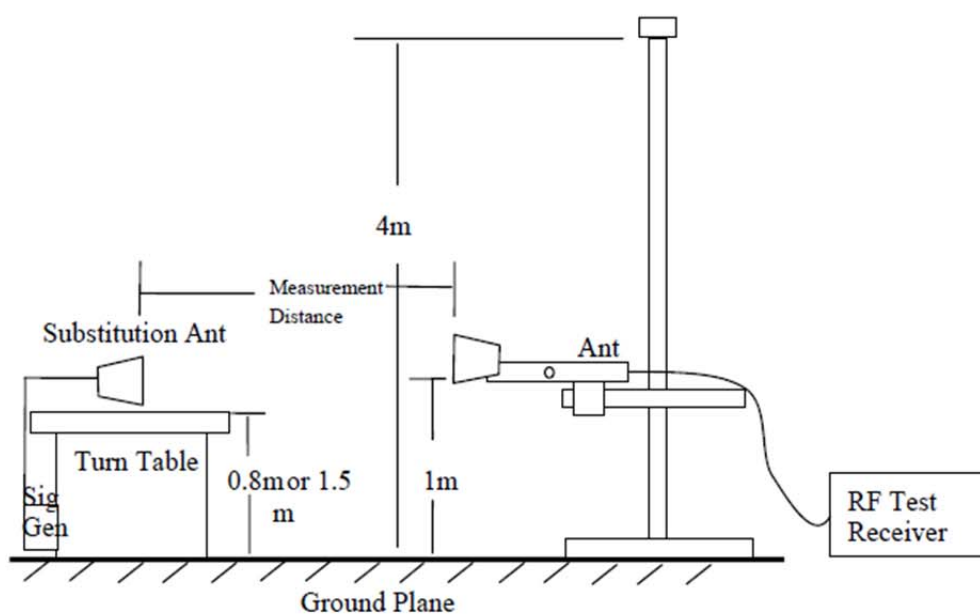


Figure 7—Substitution method set-up for radiated emission

Test Procedure:

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

$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
 where

$$P_e = \text{equivalent emission power in dBm}$$

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

4. TEST DATA AND RESULTS

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

Sample Number:	2RL8-1	Test Date:	2024/9/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/7/12	2025/7/11
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
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 Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.02	22.12	21.97	21.87	33
HSDPA Subtest 1	21.42	21.56	21.37	21.31	33
HSDPA Subtest 2	21.4	21.37	21.29	21.15	33
HSDPA Subtest 3	21.3	21.37	21.24	21.12	33
HSDPA Subtest 4	21.42	21.41	21.27	21.17	33
HSUPA Subtest 1	21.39	21.52	21.41	21.27	33
HSUPA Subtest 2	21.2	21.44	21.36	21.19	33
HSUPA Subtest 3	21.24	21.35	21.35	21.1	33
HSUPA Subtest 4	21.35	21.49	21.38	21.24	33
HSUPA Subtest 5	21.25	21.44	21.27	21.19	33
DC-HSDPA Subtest 1	21.89	21.99	21.84	21.74	33
DC-HSDPA Subtest 2	21.99	22.03	21.86	21.78	33
DC-HSDPA Subtest 3	21.85	22.08	21.83	21.83	33
DC-HSDPA Subtest 4	21.98	22.03	21.95	21.78	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	2.88	2.76	2.72	13
HSDPA	3.62	3.91	3.59	13
HSUPA	3.24	3.21	3.81	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	4.15	4.15	4.18	4.73	4.76	4.76
HSDPA	4.13	4.15	4.15	4.74	4.75	4.76
HSUPA	4.13	4.15	4.17	4.74	4.74	4.76

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.
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Out of band emission, Band Edge

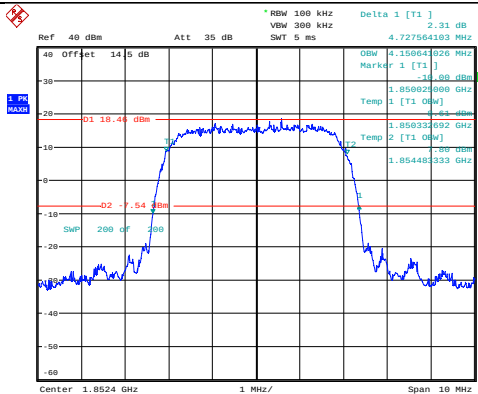
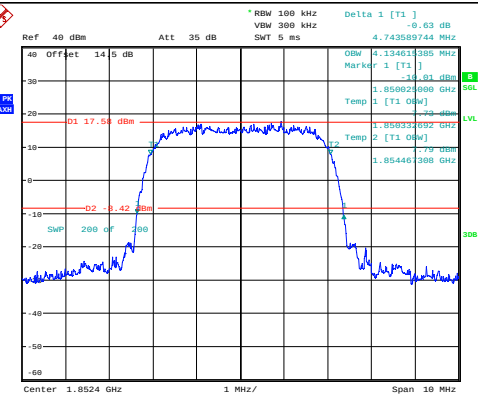
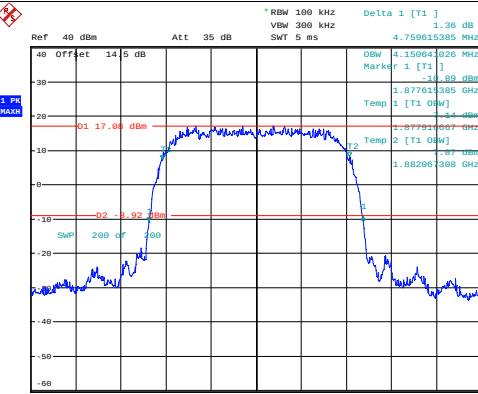
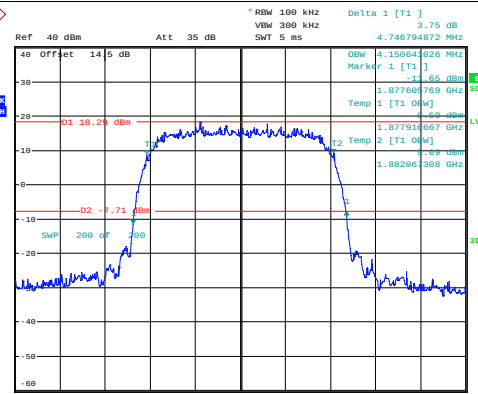
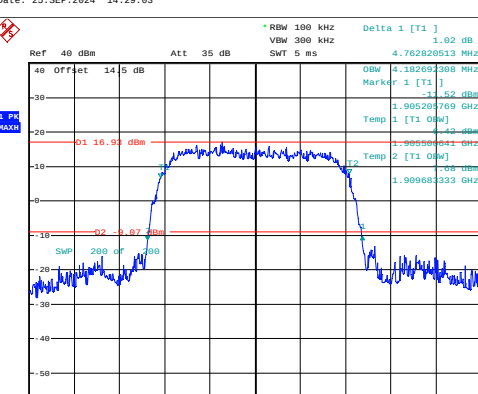
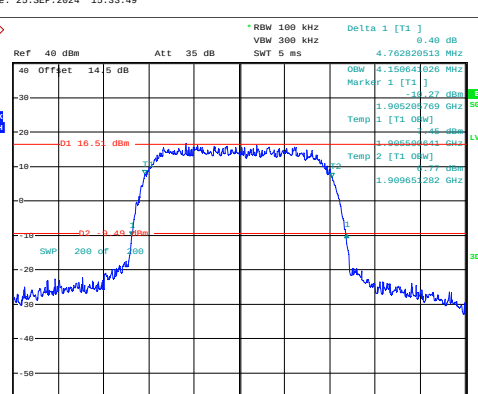
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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Frequency Stability

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	1850.331	1850.000	1909.701	1910.000
	-20	3.7	1850.321	1850.000	1909.693	1910.000
	-10	3.7	1850.305	1850.000	1909.685	1910.000
	0	3.7	1850.323	1850.000	1909.706	1910.000
	10	3.7	1850.324	1850.000	1909.688	1910.000
	20	3.7	1850.333	1850.000	1909.683	1910.000
	30	3.7	1850.320	1850.000	1909.706	1910.000
	40	3.7	1850.304	1850.000	1909.699	1910.000
	50	3.7	1850.308	1850.000	1909.690	1910.000
Frequency Stability vs. Voltage	20	3.4	1850.329	1850.000	1909.690	1910.000
	20	4.2	1850.319	1850.000	1909.684	1910.000
Result:					Pass	

Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee cconnector and Antenuator which was offset into the Spectrum Analyzer):

Occupied Bandwidth

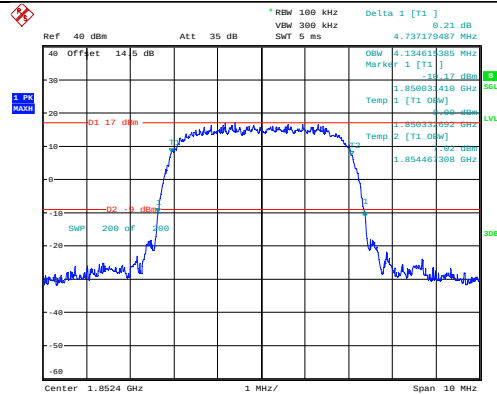
Channel	WCDMA R99	HSDPA
Lowest	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:26:57	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:30:34
Middle	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:29:03	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:33:49
Highest	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:53:46	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:43:41

Occupied Bandwidth

Channel

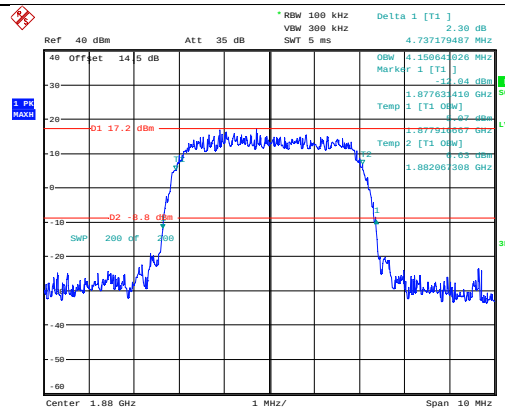
HSUPA

Lowest



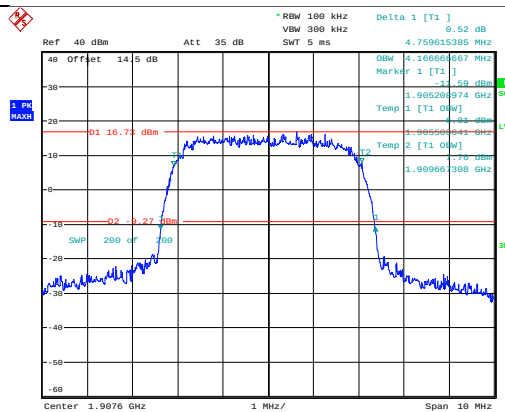
ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 16:17:00

Middle



ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 16:18:55

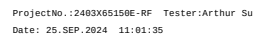
Highest



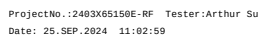
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Date: 25.SEP.2024 16:21:00

Channel

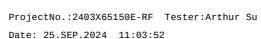
Lowest



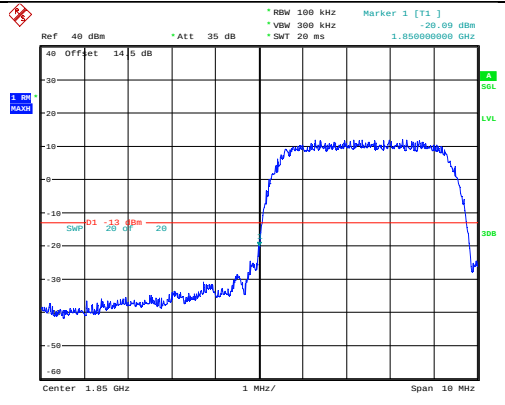
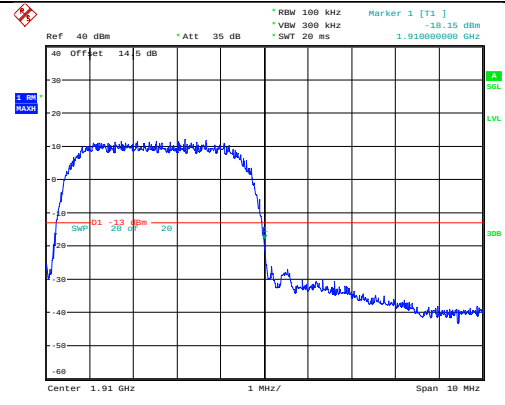
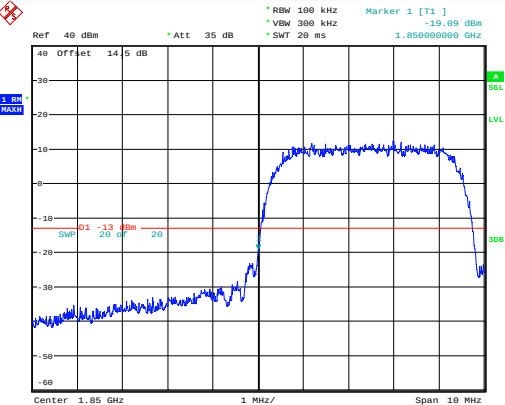
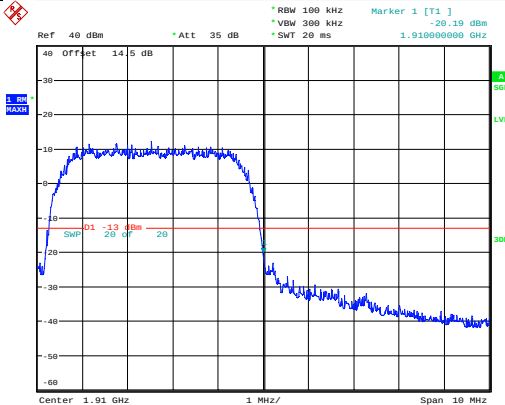
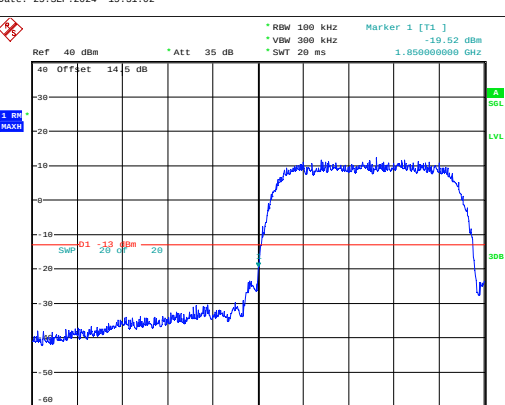
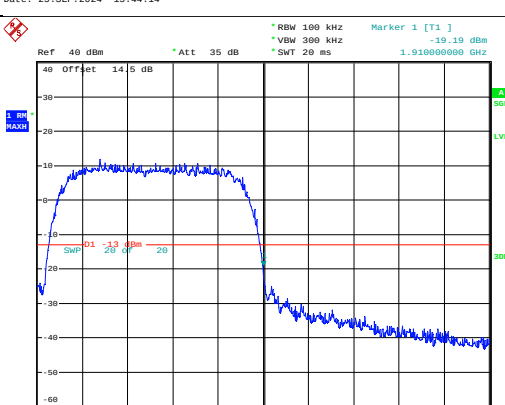
Middle



Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.09 dBm, 1.850000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:27:12	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.15 dBm, 1.910000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:54:19
HSDPA	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.52 dBm, 1.850000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:31:02	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.19 dBm, 1.910000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:44:14
HSUPA	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.52 dBm, 1.850000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:15:50	 Ref: 40 dBm, Att: 35 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 20 ms, Marker 1 [T1]: -19.19 dBm, 1.910000000 GHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:26:37

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

Sample Number:	2RL8-1	Test Date:	2024/9/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/7/12	2025/7/11
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

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

Test Frequency For Each Mode:

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

Test Data:**RF Output Power**

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.31	22.81	22.77	23.34	30
HSDPA Subtest 1	21.96	22.46	22.32	22.99	30
HSDPA Subtest 2	21.82	22.46	22.28	22.99	30
HSDPA Subtest 3	21.85	22.34	22.13	22.87	30
HSDPA Subtest 4	21.89	22.3	22.26	22.83	30
HSUPA Subtest 1	21.97	22.36	22.38	22.91	30
HSUPA Subtest 2	21.92	22.21	22.33	22.86	30
HSUPA Subtest 3	21.83	22.19	22.27	22.8	30
HSUPA Subtest 4	21.97	22.21	22.34	22.87	30
HSUPA Subtest 5	21.82	22.34	22.38	22.91	30
DC-HSDPA Subtest 1	22.17	22.67	22.67	23.2	30
DC-HSDPA Subtest 2	22.23	22.64	22.66	23.19	30
DC-HSDPA Subtest 3	22.27	22.72	22.69	23.25	30
DC-HSDPA Subtest 4	22.15	22.65	22.59	23.18	30

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.11	3.04	2.66	13
HSDPA	4.17	3.85	3.75	13
HSUPA	3.4	3.88	3.46	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	4.15	4.13	4.15	4.74	4.74	4.76
HSDPA	4.13	4.13	4.15	4.71	4.73	4.74
HSUPA	4.13	4.13	4.13	4.74	4.72	4.76

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.
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Out of band emission, Band Edge

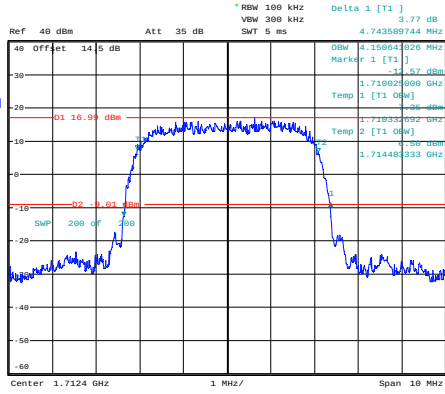
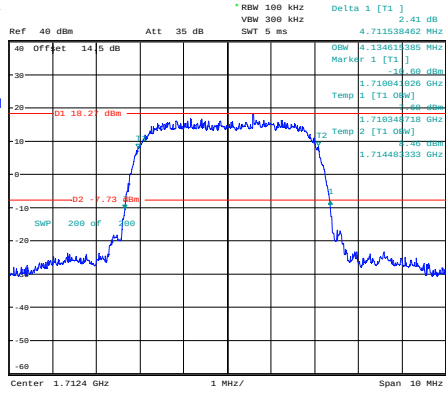
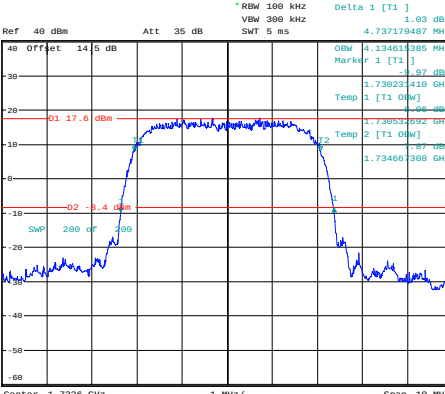
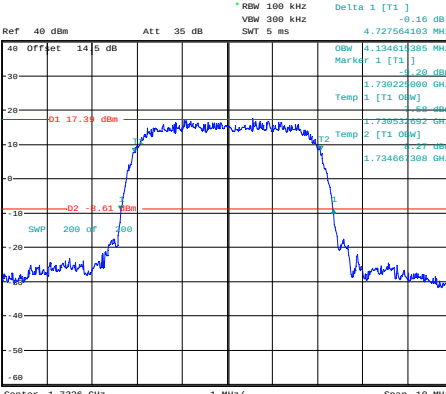
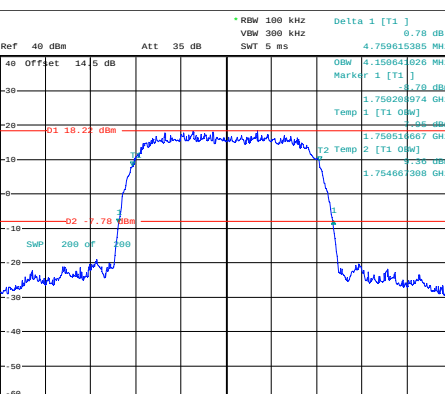
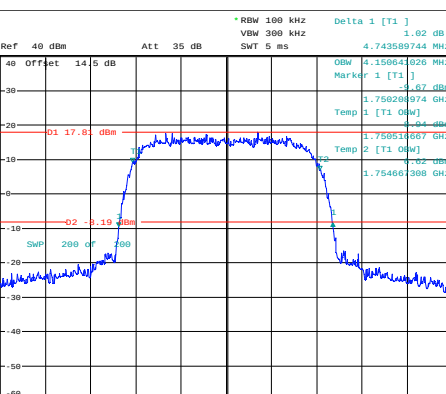
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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Frequency Stability

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	1710.322	1710.000	1754.667	1755.000
	-20	3.7	1710.317	1710.000	1754.670	1755.000
	-10	3.7	1710.309	1710.000	1754.686	1755.000
	0	3.7	1710.326	1710.000	1754.685	1755.000
	10	3.7	1710.329	1710.000	1754.677	1755.000
	20	3.7	1710.333	1710.000	1754.667	1755.000
	30	3.7	1710.322	1710.000	1754.682	1755.000
	40	3.7	1710.325	1710.000	1754.676	1755.000
	50	3.7	1710.313	1710.000	1754.675	1755.000
Frequency Stability vs. Voltage	20	3.4	1710.308	1710.000	1754.673	1755.000
	20	4.2	1710.320	1710.000	1754.684	1755.000
Result:					Pass	

Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee cconnector and Antenuator which was offset into the Spectrum Analyzer):

Occupied Bandwidth

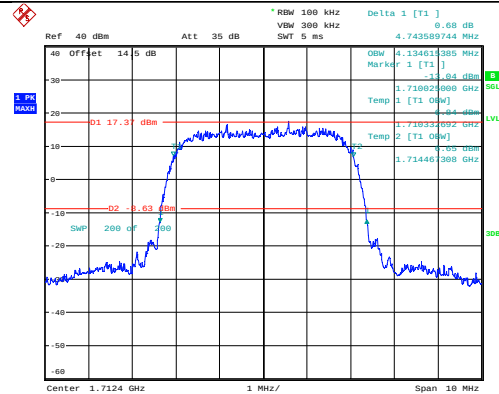
Channel	WCDMA R99	HSDPA
Lowest	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:58:48	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:49:31
Middle	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:01:48	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:50:49
Highest	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:03:10	 ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:52:17

Occupied Bandwidth

Channel

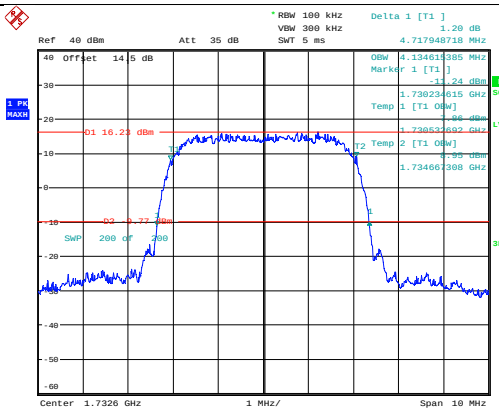
HSUPA

Lowest



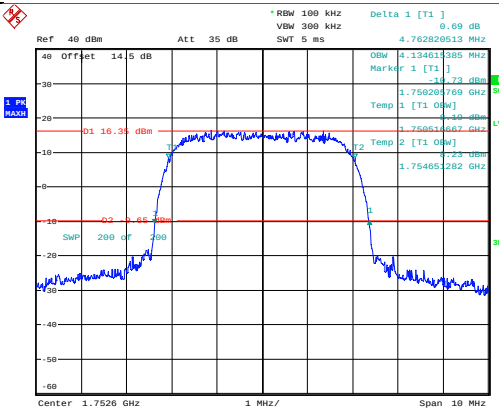
ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 16:13:59

Middle



ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 16:12:08

Highest



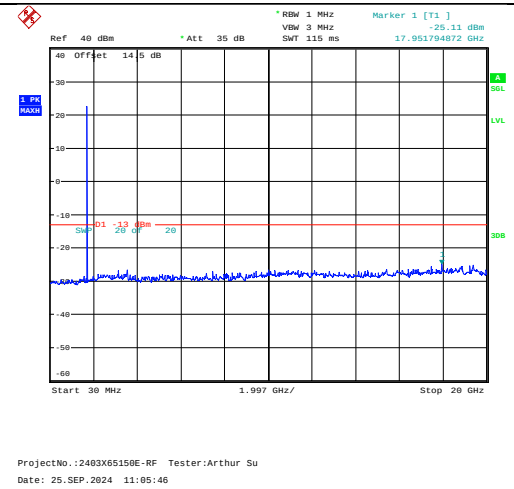
ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 16:10:23

Spurious Emissions at Antenna Terminal

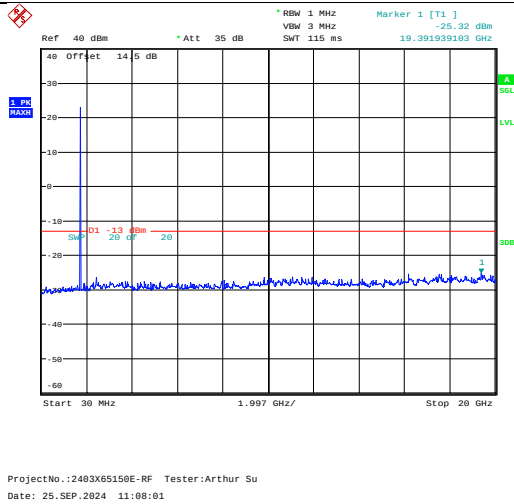
Channel

WCDMA R99

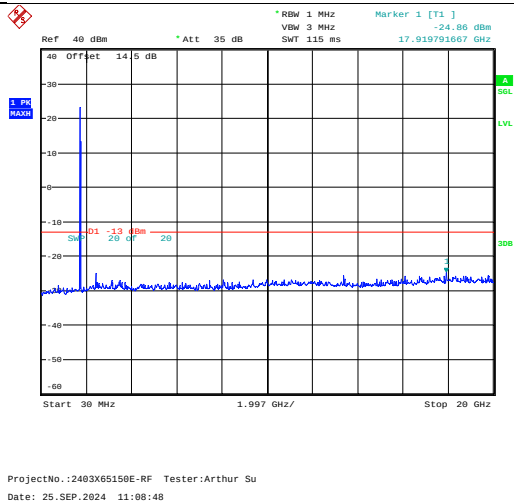
Lowest



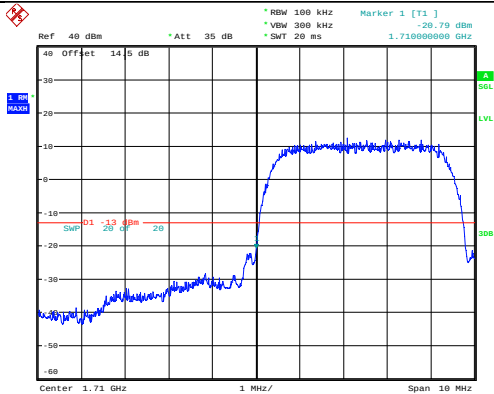
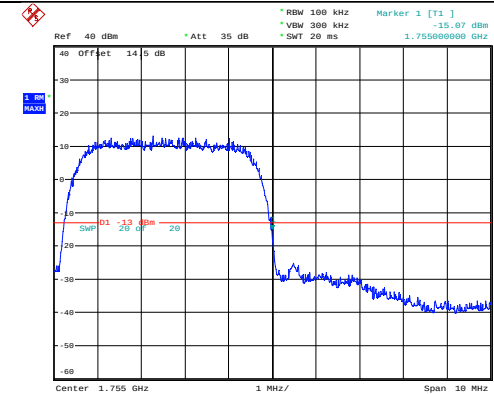
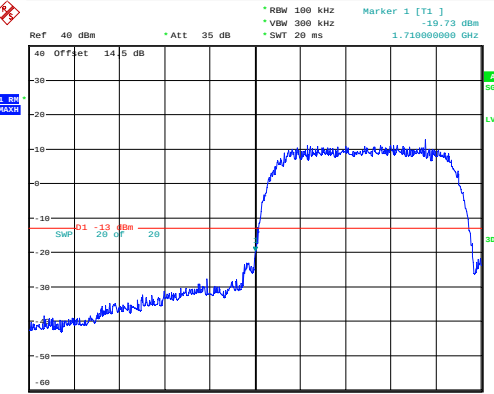
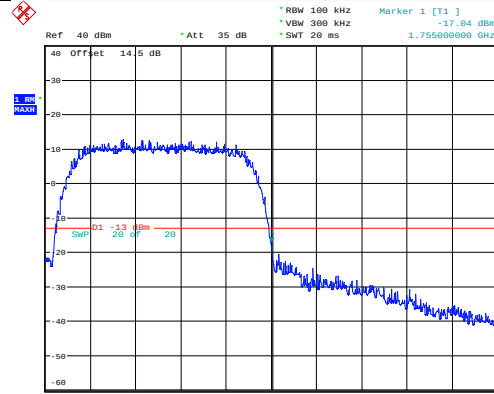
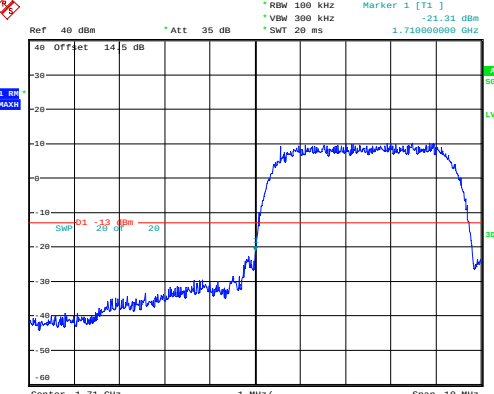
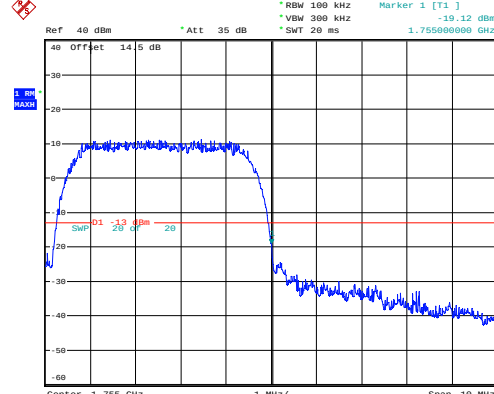
Middle



Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -19.79 dBm VBW 300 kHz SWT 20 ms 1.710000000 GHz Center 1.71 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 14:57:11	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -15.07 dBm VBW 300 kHz SWT 20 ms 1.755000000 GHz Center 1.755 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:03:34
HSDPA	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -19.73 dBm VBW 300 kHz SWT 20 ms 1.710000000 GHz Center 1.71 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:47:07	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -17.04 dBm VBW 300 kHz SWT 20 ms 1.755000000 GHz Center 1.755 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:52:36
HSUPA	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -21.31 dBm VBW 300 kHz SWT 20 ms 1.710000000 GHz Center 1.71 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:14:24	 Ref 40 dBm *Att 35 dB RBW 100 kHz Marker 1 [T1] -19.12 dBm VBW 300 kHz SWT 20 ms 1.755000000 GHz Center 1.755 GHz 1 MHz/ Span 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:08:23

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

Sample Number:	2RL8-1	Test Date:	2024/9/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/7/12	2025/7/11
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
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**

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.58	22.74	22.65	17.94	38.45
HSDPA Subtest 1	22.15	21.89	21.79	17.35	38.45
HSDPA Subtest 2	22.15	21.72	21.69	17.35	38.45
HSDPA Subtest 3	22.14	21.7	21.66	17.34	38.45
HSDPA Subtest 4	21.99	21.83	21.7	17.19	38.45
HSUPA Subtest 1	22.12	22.03	21.77	17.32	38.45
HSUPA Subtest 2	22.09	21.97	21.72	17.29	38.45
HSUPA Subtest 3	21.97	21.99	21.66	17.19	38.45
HSUPA Subtest 4	22.03	21.96	21.71	17.23	38.45
HSUPA Subtest 5	21.98	21.86	21.72	17.18	38.45
DC-HSDPA Subtest 1	22.52	22.67	22.54	17.87	38.45
DC-HSDPA Subtest 2	22.47	22.68	22.54	17.88	38.45
DC-HSDPA Subtest 3	22.57	22.55	22.53	17.77	38.45
DC-HSDPA Subtest 4	22.54	22.59	22.65	17.85	38.45
Note: ERP= Conducted Power(dBm) - Lc(dB) + G _T (dBd) G _T (dBd)=G _T (dBi)-2.15					
				Result:	Pass

Peak-to-average Ratio(PAR)				
Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	2.98	2.98	3.04	13
HSDPA	3.78	4.04	3.59	13
HSUPA	3.14	3.88	3.46	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	4.17	4.15	4.17	4.78	4.73	4.73
HSDPA	4.17	4.15	4.2	4.74	4.74	6.65
HSUPA	4.15	4.15	4.18	4.73	4.74	6.35
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.
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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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Frequency Stability

Test Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.7	3	0.004	2.5
	-20	3.7	38	0.045	2.5
	-10	3.7	33	0.039	2.5
	0	3.7	14	0.017	2.5
	10	3.7	11	0.013	2.5
	20	3.7	3	0.004	2.5
	30	3.7	12	0.014	2.5
	40	3.7	9	0.011	2.5
	50	3.7	52	0.062	2.5
Frequency Stability vs. Voltage	20	3.4	31	0.037	2.5
	20	4.2	15	0.018	2.5
Result:				Pass	

Occupied Bandwidth

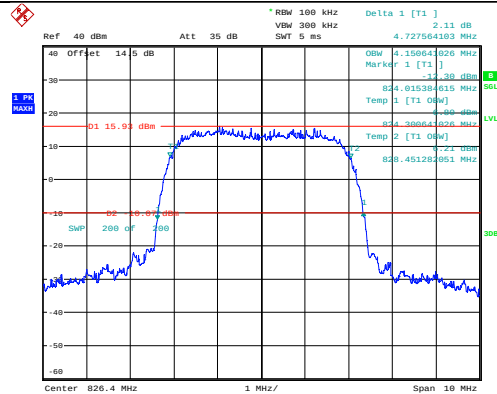
Page 43 of 62

Occupied Bandwidth

Channel

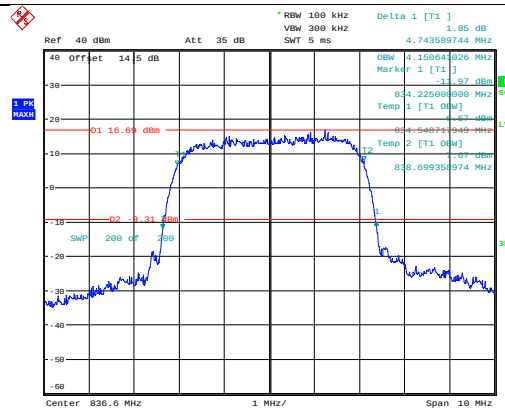
HSUPA

Lowest



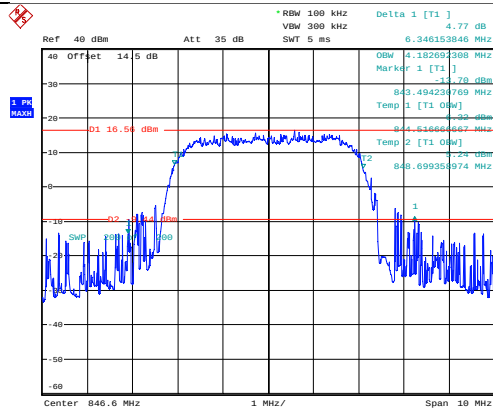
ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25_SEP.2024 16:07:13

Middle



ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25_SEP.2024 16:05:11

Highest



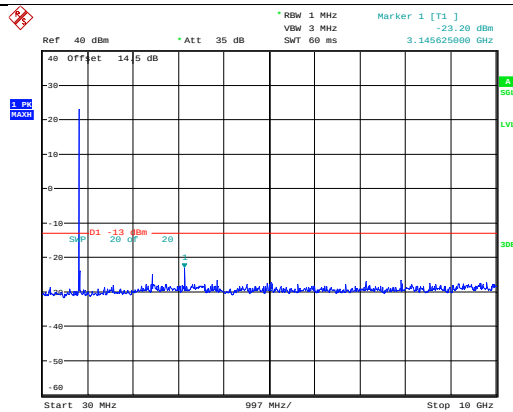
ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25_SEP.2024 16:02:38

Channel

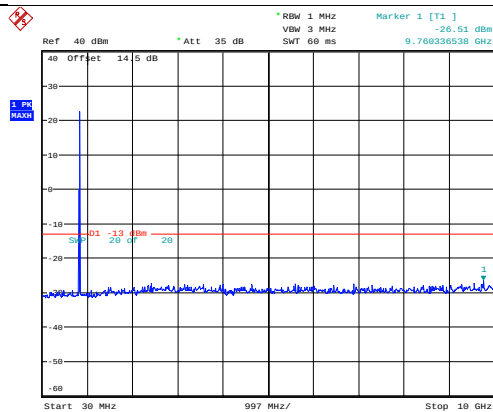
WCDMA R99

[illegible]

Middle

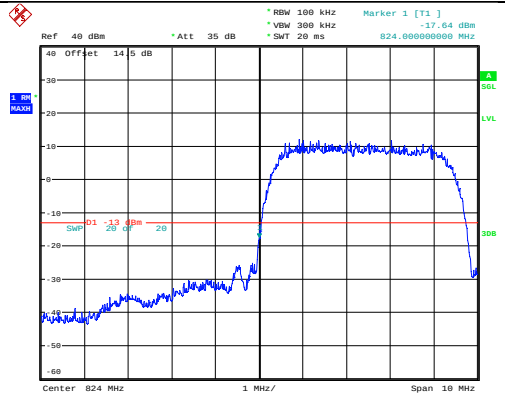
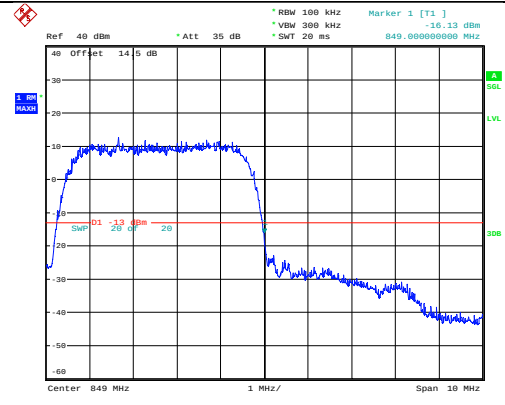
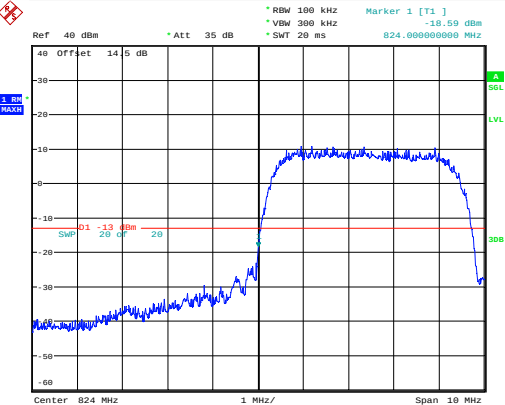
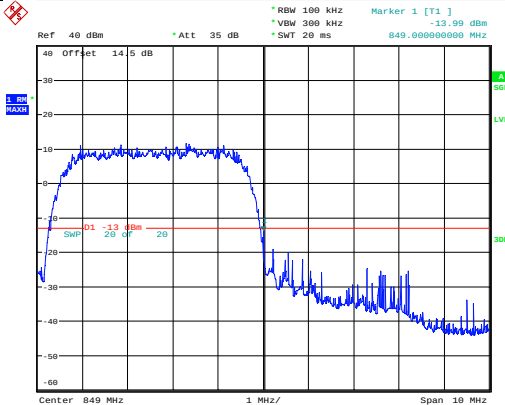
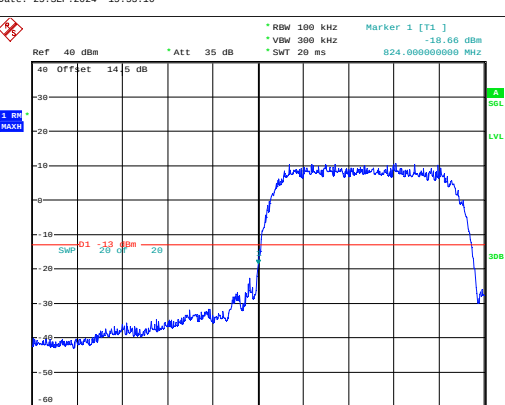
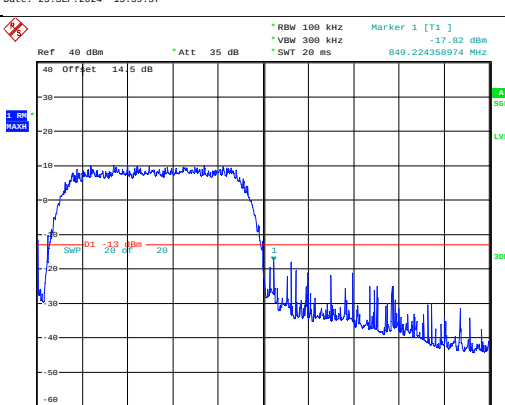


Highest



ProjectNo.:2403X65150E-RF Tester:Arthur Su
Date: 25.SEP.2024 11:12:09

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -17.64 dBm VBW: 300 kHz 824.00000000 MHz SWT: 20 ms Center: 824 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:04:17	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -13.13 dBm VBW: 300 kHz 849.00000000 MHz SWT: 20 ms Center: 849 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:15:15
HSDPA	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -18.59 dBm VBW: 300 kHz 824.00000000 MHz SWT: 20 ms Center: 824 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:53:10	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -13.99 dBm VBW: 300 kHz 849.00000000 MHz SWT: 20 ms Center: 849 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 15:59:57
HSUPA	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -18.66 dBm VBW: 300 kHz 824.00000000 MHz SWT: 20 ms Center: 824 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:07:33	 Ref: 40 dBm *Att: 35 dB RBW: 100 kHz Marker 1 [T1] -17.92 dBm VBW: 300 kHz 849.224358974 MHz SWT: 20 ms Center: 849 MHz 1 MHz/ Span: 10 MHz ProjectNo.:2403X65150E-RF Tester:Arthur Su Date: 25.SEP.2024 16:01:41

4.4 RF Conducted data for LTE**Test Frequency for Each Mode:**

Operation Band	Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
B2	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
B4	1.4MHz	1710.7	1732.5	1754.3
	3MHz	1711.5	1732.5	1753.5
	5MHz	1712.5	1732.5	1752.5
	10MHz	1715	1732.5	1750
	15MHz	1717.5	1732.5	1747.5
	20MHz	1720	1732.5	1745
B5	1.4MHz	824.7	836.5	848.3
	3MHz	825.5	836.5	847.5
	5MHz	826.5	836.5	846.5
	10MHz	829	836.5	844
B12	1.4MHz	699.7	707.5	715.3
	3MHz	700.5	707.5	714.5
	5MHz	701.5	707.5	713.5
	10MHz	704	707.5	711
B13	5MHz	779.5	/	784.5
	10MHz	/	782	/
B25	1.4MHz	1850.7	1882.5	1914.3
	3MHz	1851.5	1882.5	1913.5
	5MHz	1852.5	1882.5	1912.5
	10MHz	1855	1882.5	1910
	15MHz	1857.5	1882.5	1907.5
	20MHz	1860	1882.5	1905
B26_1	1.4MHz	814.7	/	823.3
	3MHz	815.5	/	822.5
	5MHz	816.5	/	821.5
	10MHz	819	/	/
	15MHz	821.5	/	/
B26_2	1.4MHz	824.7	836.5	848.3
	3MHz	825.5	836.5	847.5
	5MHz	826.5	836.5	846.5
	10MHz	829	836.5	844
	15MHz	831.5	836.5	841.5

Test Frequency for Each Mode:

Operation Band	Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
B26_3	1.4MHz	/	824	/
	3MHz	/	824	/
	5MHz	/	824	/
	10MHz	/	824	/
	15MHz	/	824	/

Please refer to Annex "Appendix A" for detail test data.

4.5 Radiated Spurious Emissions

1) 30 MHz – 1GHz

Sample Number:	2RL8-2	Test Date:	2024/9/24
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2	Relative Humidity: (%)	53	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/4	2024/12/3
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/6/11	2025/6/10
Sonoma	Amplifier	310N	186165	2023/12/4	2024/12/3
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/7/15	2025/7/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16

* 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 Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (PART 22H)**WCDMA Band 5:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
464.38	H	22.37	-54.19	0.00	0.42	-54.61	-13.00	41.61
584.16	V	21.49	-50.22	0.00	0.46	-50.68	-13.00	37.68
Frequency: 836.6 MHz								
465.61	H	22.36	-54.17	0.00	0.42	-54.59	-13.00	41.59
584.26	V	21.36	-50.35	0.00	0.46	-50.81	-13.00	37.81
Frequency: 846.6 MHz								
464.89	H	22.36	-54.19	0.00	0.42	-54.61	-13.00	41.61
584.69	V	21.76	-49.95	0.00	0.46	-50.41	-13.00	37.41

PCS Band (PART 24E)**WCDMA Band 2:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1852.4	MHz				
139.65	H	42.58	-69.72	0.00	0.22	-69.94	-13.00	56.94
139.08	V	45.69	-62.20	0.00	0.22	-62.42	-13.00	49.42
Frequency:			1880	MHz				
139.47	H	42.69	-69.60	0.00	0.22	-69.82	-13.00	56.82
138.79	V	45.77	-62.08	0.00	0.22	-62.30	-13.00	49.30
Frequency:			1907.6	MHz				
139.22	H	42.66	-69.63	0.00	0.22	-69.85	-13.00	56.85
138.49	V	46.81	-61.01	0.00	0.22	-61.23	-13.00	48.23

AWS Band(Part 27)**WCDMA Band 4:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1712.4	MHz				
139.56	H	42.74	-69.56	0.00	0.22	-69.78	-13.00	56.78
138.97	V	45.98	-61.89	0.00	0.22	-62.11	-13.00	49.11
Frequency:			1732.6	MHz				
138.61	H	42.16	-70.13	0.00	0.22	-70.35	-13.00	57.35
139.10	V	46.22	-61.67	0.00	0.22	-61.89	-13.00	48.89
Frequency:			1752.6	MHz				
139.81	H	43.17	-69.13	0.00	0.22	-69.35	-13.00	56.35
139.46	V	46.32	-61.61	0.00	0.22	-61.83	-13.00	48.83

LTE Bands:(The Worst modulation and bandwidth(1RB) was below)**LTE Band 2:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
139.71	H	43.62	-68.68	0.00	0.22	-68.90	-13.00	55.90
139.12	V	45.89	-62.00	0.00	0.22	-62.22	-13.00	49.22
1.4MHz QPSK, Frequency: 1880 MHz								
139.82	H	43.68	-68.62	0.00	0.22	-68.84	-13.00	55.84
139.75	V	46.30	-61.66	0.00	0.22	-61.88	-13.00	48.88
1.4MHz QPSK, Frequency: 1909.3 MHz								
139.47	H	43.19	-69.10	0.00	0.22	-69.32	-13.00	56.32
139.54	V	46.04	-61.90	0.00	0.22	-62.12	-13.00	49.12

LTE Band 4:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
139.45	H	43.28	-69.01	0.00	0.22	-69.23	-13.00	56.23
139.16	V	46.37	-61.53	0.00	0.22	-61.75	-13.00	48.75
1.4MHz QPSK, Frequency: 1732.5 MHz								
138.98	H	43.11	-69.18	0.00	0.22	-69.40	-13.00	56.40
139.39	V	46.29	-61.63	0.00	0.22	-61.85	-13.00	48.85
1.4MHz QPSK, Frequency: 1754.3 MHz								
139.97	H	43.74	-68.56	0.00	0.22	-68.78	-13.00	55.78
139.78	V	46.08	-61.89	0.00	0.22	-62.11	-13.00	49.11

LTE Band 5:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			824.7	MHz				
464.45	H	22.61	-53.95	0.00	0.42	-54.37	-13.00	41.37
584.57	V	21.64	-50.07	0.00	0.46	-50.53	-13.00	37.53
1.4MHz QPSK, Frequency:			836.5	MHz				
464.52	H	22.84	-53.71	0.00	0.42	-54.13	-13.00	41.13
584.69	V	21.89	-49.82	0.00	0.46	-50.28	-13.00	37.28
1.4MHz QPSK, Frequency:			848.3	MHz				
464.25	H	22.69	-53.87	0.00	0.42	-54.29	-13.00	41.29
584.17	V	21.53	-50.18	0.00	0.46	-50.64	-13.00	37.64

LTE Band 12:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 699.7 MHz								
464.33	H	21.88	-54.68	0.00	0.42	-55.10	-13.00	42.10
584.69	V	21.36	-50.35	0.00	0.46	-50.81	-13.00	37.81
1.4MHz QPSK, Frequency: 707.5 MHz								
464.27	H	22.79	-53.77	0.00	0.42	-54.19	-13.00	41.19
584.79	V	22.31	-49.40	0.00	0.46	-49.86	-13.00	36.86
1.4MHz QPSK, Frequency: 715.3 MHz								
464.71	H	22.49	-54.06	0.00	0.42	-54.48	-13.00	41.48
584.78	V	22.09	-49.62	0.00	0.46	-50.08	-13.00	37.08

LTE Band 13:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 779.5 MHz								
464.21	H	22.19	-54.37	0.00	0.42	-54.79	-13.00	41.79
584.76	V	22.37	-49.34	0.00	0.46	-49.80	-13.00	36.80
5MHz QPSK, Frequency: 784.5 MHz								
464.69	H	22.64	-53.91	0.00	0.42	-54.33	-13.00	41.33
583.98	V	22.91	-48.80	0.00	0.46	-49.26	-13.00	36.26

LTE Band 25:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			1850.7	MHz				
139.65	H	43.20	-69.10	0.00	0.22	-69.32	-13.00	56.32
138.49	V	46.31	-61.51	0.00	0.22	-61.73	-13.00	48.73
1.4MHz QPSK, Frequency:			1882.5	MHz				
139.46	H	42.89	-69.40	0.00	0.22	-69.62	-13.00	56.62
138.19	V	46.13	-61.66	0.00	0.22	-61.88	-13.00	48.88
1.4MHz QPSK, Frequency:			1914.3	MHz				
139.16	H	42.56	-69.73	0.00	0.22	-69.95	-13.00	56.95
139.41	V	46.39	-61.53	0.00	0.22	-61.75	-13.00	48.75

LTE Band 26:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			814.7	MHz				
464.21	H	22.64	-53.92	0.00	0.42	-54.34	-13.00	41.34
584.17	V	22.55	-49.16	0.00	0.46	-49.62	-13.00	36.62
1.4MHz QPSK, Frequency:			836.5	MHz				
463.98	H	22.73	-53.83	0.00	0.42	-54.25	-13.00	41.25
584.10	V	22.67	-49.04	0.00	0.46	-49.50	-13.00	36.50
1.4MHz QPSK, Frequency:			848.3	MHz				
463.69	H	22.37	-54.20	0.00	0.42	-54.62	-13.00	41.62
584.36	V	22.19	-49.52	0.00	0.46	-49.98	-13.00	36.98

2) Above 1GHz

Sample Number	2RL8-2	Test Date:	2024/9/23
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	69	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/7/15	2025/7/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2024/1/15	2025/1/14
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2024/8/5	2025/8/4
JD	Filter Switch Unit	DT7220FSU	DQ77928	2024/8/5	2025/8/4

** 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 Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (PART 22H)**WCDMA Band 5(1-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
1652.800	H	40.22	-64.23	8.68	0.81	-56.36	-13.00	43.36
1652.800	V	42.94	-61.59	8.68	0.81	-53.72	-13.00	40.72
2479.200	H	36.02	-64.98	9.39	1.01	-56.60	-13.00	43.60
2479.200	V	34.85	-66.12	9.39	1.01	-57.74	-13.00	44.74
3305.600	H	34.74	-62.71	10.32	1.15	-53.54	-13.00	40.54
3305.600	V	35.63	-61.60	10.32	1.15	-52.43	-13.00	39.43
Frequency: 836.6 MHz								
1673.200	H	41.82	-62.60	8.71	0.85	-54.74	-13.00	41.74
1673.200	V	43.25	-61.28	8.71	0.85	-53.42	-13.00	40.42
2509.800	H	36.56	-64.27	9.42	1.01	-55.86	-13.00	42.86
2509.800	V	35.55	-65.29	9.42	1.01	-56.88	-13.00	43.88
3346.400	H	35.85	-62.21	10.34	1.16	-53.03	-13.00	40.03
3346.400	V	34.37	-63.55	10.34	1.16	-54.37	-13.00	41.37
Frequency: 846.6 MHz								
1693.200	H	39.85	-64.55	8.73	0.89	-56.71	-13.00	43.71
1693.200	V	41.12	-63.40	8.73	0.89	-55.56	-13.00	42.56
2539.800	H	35.55	-65.10	9.46	1.01	-56.65	-13.00	43.65
2539.800	V	35.46	-65.15	9.46	1.01	-56.70	-13.00	43.70
3386.400	H	34.08	-64.58	10.35	1.18	-55.41	-13.00	42.41
3386.400	V	36.25	-62.36	10.35	1.18	-53.19	-13.00	40.19

WCDMA Band 2(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1852.4	MHz				
3704.800	H	38.55	-60.34	10.60	1.25	-50.99	-13.00	37.99
3704.800	V	39.36	-59.50	10.60	1.25	-50.15	-13.00	37.15
5557.200	H	34.28	-61.94	11.43	1.49	-52.00	-13.00	39.00
5557.200	V	36.01	-60.06	11.43	1.49	-50.12	-13.00	37.12
Frequency:			1880	MHz				
3760.000	H	40.12	-57.58	10.66	1.24	-48.16	-13.00	35.16
3760.000	V	38.74	-58.84	10.66	1.24	-49.42	-13.00	36.42
5640.000	H	35.44	-61.36	11.33	1.54	-51.57	-13.00	38.57
5640.000	V	35.29	-61.39	11.33	1.54	-51.60	-13.00	38.60
Frequency:			1907.6	MHz				
3815.200	H	37.85	-59.10	10.72	1.29	-49.67	-13.00	36.67
3815.200	V	39.44	-57.36	10.72	1.29	-47.93	-13.00	34.93
5722.800	H	36.03	-61.10	11.23	1.58	-51.45	-13.00	38.45
5722.800	V	35.54	-61.46	11.23	1.58	-51.81	-13.00	38.81

AWS Band (PART 27)**WCDMA Band 4(1-18GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1712.4 MHz								
3424.800	H	39.58	-59.34	10.37	1.17	-50.14	-13.00	37.14
3424.800	V	41.23	-57.66	10.37	1.17	-48.46	-13.00	35.46
5137.200	H	34.74	-61.46	11.28	1.46	-51.64	-13.00	38.64
5137.200	V	35.01	-61.08	11.28	1.46	-51.26	-13.00	38.26
Frequency: 1732.6 MHz								
3465.200	H	42.62	-56.40	10.39	1.15	-47.16	-13.00	34.16
3465.200	V	40.55	-58.42	10.39	1.15	-49.18	-13.00	36.18
5197.800	H	36.22	-60.73	11.32	1.44	-50.85	-13.00	37.85
5197.800	V	35.87	-60.93	11.32	1.44	-51.05	-13.00	38.05
Frequency: 1752.6 MHz								
3505.200	H	38.58	-60.48	10.41	1.18	-51.25	-13.00	38.25
3505.200	V	39.66	-59.34	10.41	1.18	-50.11	-13.00	37.11
5257.800	H	35.41	-61.39	11.35	1.47	-51.51	-13.00	38.51
5257.800	V	35.22	-61.36	11.35	1.47	-51.48	-13.00	38.48

LTE Bands:(The Worst modulation and bandwidth(1RB) was below)**LTE Band 2(1-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			1850.7	MHz				
3701.400	H	39.22	-59.74	10.60	1.25	-50.39	-13.00	37.39
3701.400	V	41.03	-57.91	10.60	1.25	-48.56	-13.00	35.56
5552.100	H	34.57	-61.61	11.44	1.49	-51.66	-13.00	38.66
5552.100	V	35.55	-60.47	11.44	1.49	-50.52	-13.00	37.52
1.4MHz QPSK, Frequency:			1880	MHz				
3760.000	H	38.07	-59.63	10.66	1.24	-50.21	-13.00	37.21
3760.000	V	37.90	-59.68	10.66	1.24	-50.26	-13.00	37.26
5640.000	H	35.12	-61.68	11.33	1.54	-51.89	-13.00	38.89
5640.000	V	34.22	-62.46	11.33	1.54	-52.67	-13.00	39.67
1.4MHz QPSK, Frequency:			1909.3	MHz				
3818.600	H	37.49	-59.49	10.72	1.29	-50.06	-13.00	37.06
3818.600	V	39.53	-57.30	10.72	1.29	-47.87	-13.00	34.87
5727.900	H	35.57	-61.56	11.23	1.59	-51.92	-13.00	38.92
5727.900	V	36.11	-60.89	11.23	1.59	-51.25	-13.00	38.25

LTE Band 4(1-18GHz):

			Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
3421.400	H	39.58	-59.33	10.37	1.17	-50.13	-13.00	37.13
3421.400	V	40.22	-58.66	10.37	1.17	-49.46	-13.00	36.46
5132.100	H	35.53	-60.61	11.28	1.47	-50.80	-13.00	37.80
5132.100	V	34.78	-61.25	11.28	1.47	-51.44	-13.00	38.44
1.4MHz QPSK, Frequency: 1732.5 MHz								
3465.000	H	40.57	-58.45	10.39	1.15	-49.21	-13.00	36.21
3465.000	V	41.12	-57.85	10.39	1.15	-48.61	-13.00	35.61
5197.500	H	34.52	-62.43	11.32	1.44	-52.55	-13.00	39.55
5197.500	V	35.02	-61.78	11.32	1.44	-51.90	-13.00	38.90
1.4MHz QPSK, Frequency: 1754.3 MHz								
3508.600	H	38.87	-60.17	10.41	1.19	-50.95	-13.00	37.95
3508.600	V	39.66	-59.31	10.41	1.19	-50.09	-13.00	37.09
5262.900	H	35.56	-61.23	11.36	1.47	-51.34	-13.00	38.34
5262.900	V	36.01	-60.55	11.36	1.47	-50.66	-13.00	37.66

LTE Band 5(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 824.7 MHz								
1649.400	H	35.55	-68.90	8.68	0.80	-61.02	-13.00	48.02
1649.400	V	34.89	-69.64	8.68	0.80	-61.76	-13.00	48.76
2474.100	H	36.32	-64.70	9.38	1.00	-56.32	-13.00	43.32
2474.100	V	36.17	-64.81	9.38	1.00	-56.43	-13.00	43.43
3298.800	H	35.22	-62.15	10.32	1.15	-52.98	-13.00	39.98
3298.800	V	34.89	-62.24	10.32	1.15	-53.07	-13.00	40.07
1.4MHz QPSK, Frequency: 836.5 MHz								
1673.000	H	34.58	-69.84	8.71	0.85	-61.98	-13.00	48.98
1673.000	V	38.28	-66.25	8.71	0.85	-58.39	-13.00	45.39
2509.500	H	35.55	-65.28	9.42	1.01	-56.87	-13.00	43.87
2509.500	V	40.80	-60.05	9.42	1.01	-51.64	-13.00	38.64
3346.000	H	34.69	-63.37	10.34	1.16	-54.19	-13.00	41.19
3346.000	V	34.16	-63.76	10.34	1.16	-54.58	-13.00	41.58
1.4MHz QPSK, Frequency: 848.3 MHz								
1696.600	H	34.77	-69.62	8.74	0.89	-61.77	-13.00	48.77
1696.600	V	35.49	-69.03	8.74	0.89	-61.18	-13.00	48.18
2544.900	H	35.26	-65.36	9.47	1.01	-56.90	-13.00	43.90
2544.900	V	35.22	-65.35	9.47	1.01	-56.89	-13.00	43.89
3393.200	H	36.91	-61.85	10.36	1.19	-52.68	-13.00	39.68
3393.200	V	34.77	-63.95	10.36	1.19	-54.78	-13.00	41.78

LTE Band 12(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 699.7 MHz								
1399.400	H	37.55	-66.25	8.22	0.71	-58.74	-13.00	45.74
1399.400	V	36.39	-67.45	8.22	0.71	-59.94	-13.00	46.94
2099.100	H	35.22	-66.64	9.16	0.91	-58.39	-13.00	45.39
2099.100	V	34.17	-67.64	9.16	0.91	-59.39	-13.00	46.39
2798.800	H	35.59	-64.93	9.88	1.04	-56.09	-13.00	43.09
2798.800	V	34.77	-65.62	9.88	1.04	-56.78	-13.00	43.78
1.4MHz QPSK, Frequency: 707.5 MHz								
1415.000	H	36.03	-67.72	8.26	0.72	-60.18	-13.00	47.18
1415.000	V	37.52	-66.28	8.26	0.72	-58.74	-13.00	45.74
2122.500	H	35.22	-66.80	9.17	0.92	-58.55	-13.00	45.55
2122.500	V	34.96	-67.04	9.17	0.92	-58.79	-13.00	45.79
2830.000	H	34.02	-66.43	9.93	1.06	-57.56	-13.00	44.56
2830.000	V	35.87	-64.52	9.93	1.06	-55.65	-13.00	42.65
1.4MHz QPSK, Frequency: 715.3 MHz								
1430.600	H	34.10	-69.58	8.31	0.73	-62.00	-13.00	49.00
1430.600	V	34.22	-69.52	8.31	0.73	-61.94	-13.00	48.94
2145.900	H	36.69	-65.50	9.19	0.93	-57.24	-13.00	44.24
2145.900	V	37.33	-64.87	9.19	0.93	-56.61	-13.00	43.61
2861.200	H	34.45	-65.92	9.98	1.07	-57.01	-13.00	44.01
2861.200	V	34.20	-66.18	9.98	1.07	-57.27	-13.00	44.27

LTE Band 13(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 779.5 MHz								
1559.000	H	53.33	-50.72	8.57	0.80	-42.95	-40.00	2.95
1559.000	V	51.62	-52.49	8.57	0.80	-44.72	-40.00	4.72
2338.500	H	36.56	-65.31	9.30	0.97	-56.98	-13.00	43.98
2338.500	V	38.65	-62.99	9.30	0.97	-54.66	-13.00	41.66
3118.000	H	35.22	-62.77	10.25	1.13	-53.65	-13.00	40.65
3118.000	V	34.25	-63.59	10.25	1.13	-54.47	-13.00	41.47
5MHz QPSK, Frequency: 784.5 MHz								
1569.000	H	55.23	-48.94	8.58	0.81	-41.17	-40.00	1.17
1569.000	V	54.68	-49.54	8.58	0.81	-41.77	-40.00	1.77
2353.500	H	40.14	-61.62	9.31	0.97	-53.28	-13.00	40.28
2353.500	V	36.55	-64.97	9.31	0.97	-56.63	-13.00	43.63
3138.000	H	35.53	-62.40	10.26	1.14	-53.28	-13.00	40.28
3138.000	V	36.14	-61.62	10.26	1.14	-52.50	-13.00	39.50

LTE Band 25(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
3701.400	H	37.55	-61.41	10.60	1.25	-52.06	-13.00	39.06
3701.400	V	39.02	-59.92	10.60	1.25	-50.57	-13.00	37.57
5552.100	H	34.69	-61.49	11.44	1.49	-51.54	-13.00	38.54
5552.100	V	35.10	-60.92	11.44	1.49	-50.97	-13.00	37.97
1.4MHz QPSK, Frequency: 1882.5 MHz								
3765.000	H	36.87	-60.72	10.67	1.25	-51.30	-13.00	38.30
3765.000	V	37.81	-59.66	10.67	1.25	-50.24	-13.00	37.24
5647.500	H	35.12	-61.72	11.32	1.55	-51.95	-13.00	38.95
5647.500	V	35.33	-61.38	11.32	1.55	-51.61	-13.00	38.61
1.4MHz QPSK, Frequency: 1914.3 MHz								
3828.600	H	38.02	-59.03	10.73	1.28	-49.58	-13.00	36.58
3828.600	V	39.44	-57.48	10.73	1.28	-48.03	-13.00	35.03
5742.900	H	35.65	-61.50	11.21	1.60	-51.89	-13.00	38.89
5742.900	V	35.78	-61.25	11.21	1.60	-51.64	-13.00	38.64

LTE Band 26(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 814.7 MHz								
1629.400	H	39.56	-64.91	8.66	0.81	-57.06	-13.00	44.06
1629.400	V	38.85	-65.68	8.66	0.81	-57.83	-13.00	44.83
2444.100	H	36.22	-64.96	9.37	1.00	-56.59	-13.00	43.59
2444.100	V	35.14	-65.90	9.37	1.00	-57.53	-13.00	44.53
3258.800	H	34.22	-63.31	10.30	1.17	-54.18	-13.00	41.18
3258.800	V	34.67	-62.61	10.30	1.17	-53.48	-13.00	40.48
1.4MHz QPSK, Frequency: 836.5 MHz								
1673.000	H	42.56	-61.86	8.71	0.85	-54.00	-13.00	41.00
1673.000	V	45.27	-59.26	8.71	0.85	-51.40	-13.00	38.40
2509.500	H	34.85	-65.98	9.42	1.01	-57.57	-13.00	44.57
2509.500	V	35.55	-65.30	9.42	1.01	-56.89	-13.00	43.89
3346.000	H	34.66	-63.40	10.34	1.16	-54.22	-13.00	41.22
3346.000	V	36.01	-61.91	10.34	1.16	-52.73	-13.00	39.73
1.4MHz QPSK, Frequency: 848.3 MHz								
1696.600	H	40.11	-64.28	8.74	0.89	-56.43	-13.00	43.43
1696.600	V	39.88	-64.64	8.74	0.89	-56.79	-13.00	43.79
2544.900	H	35.85	-64.77	9.47	1.01	-56.31	-13.00	43.31
2544.900	V	36.03	-64.54	9.47	1.01	-56.08	-13.00	43.08
3393.200	H	35.44	-63.32	10.36	1.19	-54.15	-13.00	41.15
3393.200	V	34.28	-64.44	10.36	1.19	-55.27	-13.00	42.27

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403X65150E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2403X65150E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403X65150E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====