



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

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FCC ID: 2BN5O-C671L

Product Name: Mobile Phone

Standard(s): 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27
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: 2503U31524E-RF-00CA3

Date Of Issue: 2025/8/30

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Test Facility

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

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

Declarations

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

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

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Each test item follows the test standard(s) without deviation.

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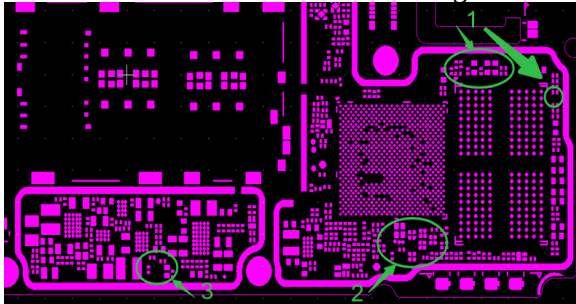
DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2503U31524E-RF-00CA3	Original Report	2025/8/30

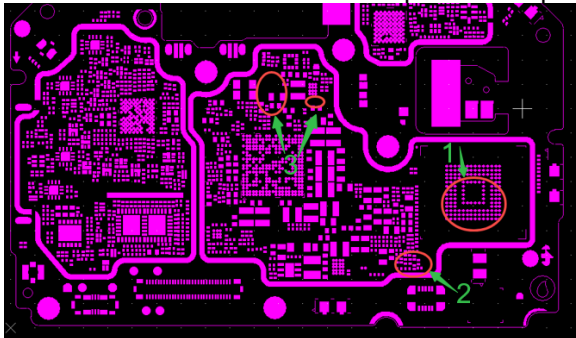
Note:

This is a CIIPC application of the device, the differences between the original device (FCC Grant Date: 05/06/2025) and the current are as follows:

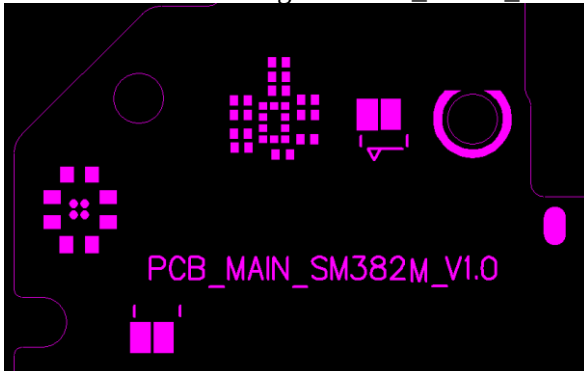
1. Position 1 two capacitor for VDDI of EMMC, position 2 some resistor for LCD-mipi signals, position 3 a beads and two capacitor for FM circuit, position 3 another resistor for VCOM and the last resistor for BST to LT of the changer IC.



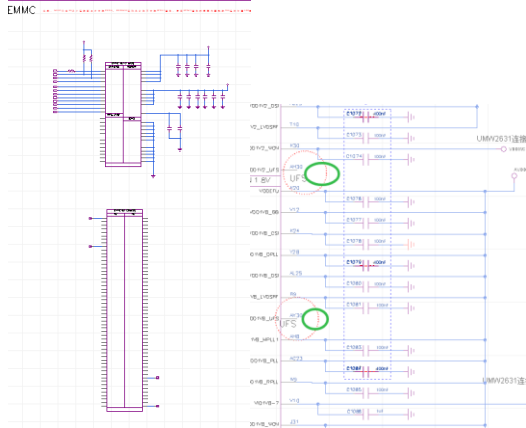
2. Position 1 is memory-EMMC, position 3 delete compatible LDO for UFS's VDD, position 2 two TVS and one resistor for fingerprint, two capacitors for CPU's AVDD1V8, and two resistor for CPU1-feedback and delete two caps for UFS power supply.



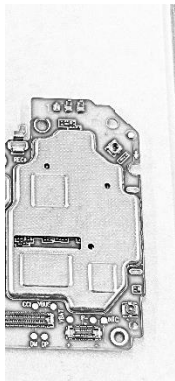
3. Hardware version changed to PCB_MAIN_SM382M_V1.0.



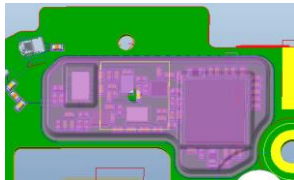
4. Memory change from UFS to EMMC, and delete two caps for UFS power supply of CPU.



5. SH-RF add a support Rib.



6. SH-WCN add a service hole for easy disassembly.



7. The appearance of the BT/WIFI antenna remains the same, only the name has changed.
8. The appearance of the main antenna remains the same, only the name has changed.
9. The optimization and improvement of the DIV antenna wiring design, as well as the change of the version number.

Radiated Spurious Emission and RF Output Power were performed to verify RF compliance.

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Mobile Phone
EUT Model:	C671L
Operation Bands and modes:	GSM/GPRS: 850/1900 WCDMA: Band 2/4/5 LTE: Band 2/4/5/7/12/17/26/38/41/66
Modulation Type:	GMSK, 8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.91V from battery or DC 5.0V/7.5V from adapter
Sample number:	357Q-1
EUT Received Date:	2025/6/26
EUT Received Status:	Good

1.1.2 Operation Voltage (V_{DC})▲

Lowest:	3.6	Normal:	3.91	Highest:	4.5
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1.1.3 Antenna Information▲

Antenna	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(GT) (dBi)	LC (dB)
Main	FPC	GSM850	824-849	-6.36	0
		WCDMA B5	824-849	-6.36	0
		PCS1900	1850-1910	-2.48	0
		WCDMA B2	1850-1910	-2.48	0
		WCDMA B4	1710-1755	-3.75	0
		LTE B2	1850-1910	-2.48	0
		LTE B4	1710-1755	-3.75	0
		LTE B5	824-849	-6.36	0
		LTE B7	2500-2570	-2.94	0
		LTE B12	699-716	-7.66	0
		LTE B17	704-716	-7.66	0
		LTE B26	814-849	-6.36	0
		LTE B38	2570-2620	-2.26	0
		LTE B41	2535~2655	-2.26	0
		LTE B66	1710-1780	-3.75	0

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

Antenn	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(GT) (dBi)	LC (dB)
Div	FPC	GSM850	824-849	-6.38	0.5
		WCDMA B5	824-849	-6.38	0.5
		PCS1900	1850-1910	-2.99	0.5
		WCDMA B2	1850-1910	-2.99	0.8
		WCDMA B4	1710-1755	-0.69	0.8
		LTE B2	1850-1910	-2.99	0.8
		LTE B4	1710-1755	-0.69	0.8
		LTE B5	824-849	-6.38	0.5
		LTE B7	2500-2570	-3.54	1
		LTE B12	699-716	-6.06	0.5
		LTE B17	704-716	-6.06	0.5
		LTE B26	814-849	-6.38	0.5
		LTE B38	2570-2620	-3.30	1
		LTE B41	2535~2655	-3.30	1
		LTE B66	1710-1780	-0.57	0.8

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

1.1.4 Accessory Information

Accessory Description	Manufacturer	Model	Serial Number
Adapter #1	BJD	U180ISA	BJD07020024C17
Adapter #2	KT	U180ISA	KT070200465102

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. The device has two WWAN antenna, but has only a single path and switches the antenna through switch. Per original device test, radiated emissions test with adapter #2 was the worst.
Equipment Modifications:	No
EUT Exercise Software:	No
The maximum power was configured per 3GPP Standard for each operation modes as below setting: GSM/GPRS Function: Menu select > GSM Mobile Station > GSM 850/1900 Press Connection control to choose the different menus Press RESET > choose all the reset all settings Connection Press Signal Off to turn off the signal and change settings Network Support > GSM + GPRS or GSM + EGSM Main Service > Packet Data Service selection > Test Mode A – Auto Slot Config. off MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting > Slot configuration > Uplink/Gamma > 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 number for TCH channel (test channel) and BCCH channel Frequency Offset > + 0 Hz Mode > BCCH and TCH BCCH Level > -85 dBm (May need to adjust if link is not stable) BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel] Channel Type > Off P0 > 4 dB Slot Config > Unchanged (if already set under MS signal) TCH > choose desired test channel Hopping > Off Main Timeslot > 3 Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS) Bit Stream > 2E9-1 PSR Bit Stream AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input Connection Press Signal on to turn on the signal and change settings	

WCDMA

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

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	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.

LTE(TDD):

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

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

Table 4.2-2: Uplink-downlink configurations.

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

Calculated Duty Cycle

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

Calculated Duty Cycle = Extended cyclic prefix in uplink $\times (T_s) \times \#$ of S + $\#$ of U

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

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$ seconds

1.2.2 Support Equipment List and Details

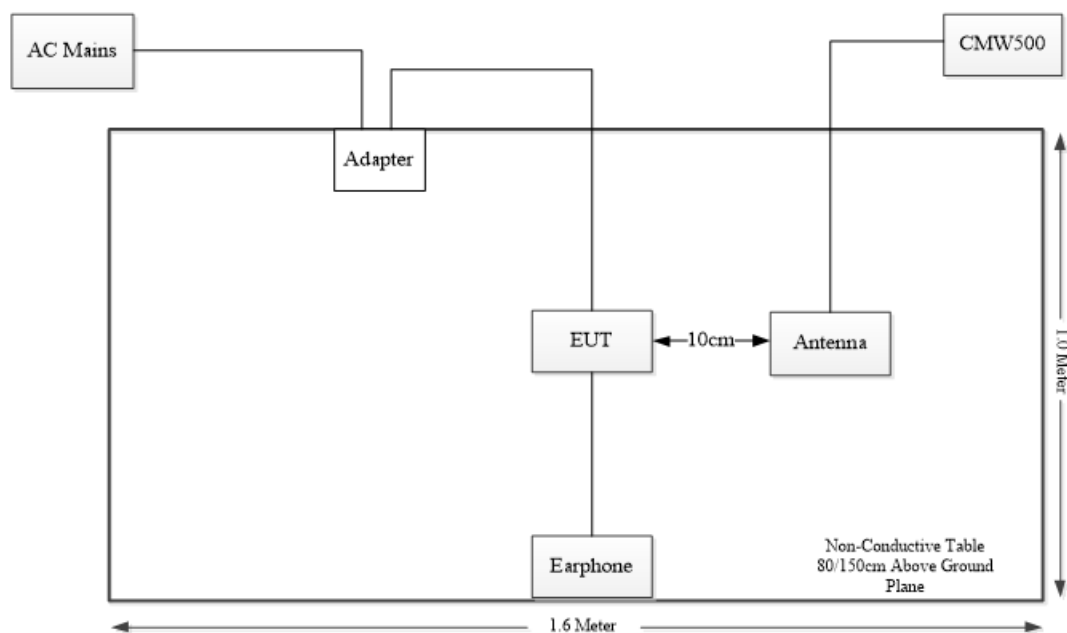
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	143458
KT	Adapter	U18OISA	KT070200465102
itel	Earphone	Unknown	Unknown
TEJIATE	Antenna	SMA	Unknown

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	0.8	Adapter	EUT
Earphone Cable	No	No	1	EUT	Earphone
Antenna Cable	No	No	10	CMW500	Antenna

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

Rules	Description of Test	Result
FCC §2.1046; § 22.913; § 24.232; §27.50; §90.635	RF Output Power	Reporting
FCC § 2.1047	Modulation Characteristics	Not Applicable
FCC § 2.1049; § 22.905; § 22.917; § 24.238; §27.53; §90.691	Occupied Bandwidth	Compliant*
FCC § 2.1051; § 22.917; § 24.238; §27.53; §90.691	Spurious Emissions at Antenna Terminal	Compliant*
FCC § 22.917; § 24.238; §27.53; §90.691	Out of band emission, Band Edge	Compliant*
FCC § 2.1055; § 22.355; § 24.235; §27.54; §90.213	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant*
FCC § 2.1053; § 22.917; § 24.238; §27.53; §90.691	Field Strength of Spurious Radiation	Compliant**

Note:

Compliant*: Please refer to the original report 2503Q32696E-RF-00E(FCC ID: 2AJMN-C671L).

FCC ID: 2BN5O-C671L is change ID base on FCC ID:2AJMN-C671L.

Compliant**: Radiated spurious emissions above 1GHz test for Main antenna refer to the original report 2503Q32696E-RF-00E(FCC ID: 2AJMN-C671L). FCC ID: 2BN5O-C671L is change ID base on FCC ID:2AJMN-C671L.

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) The following power limits and related requirements apply to stations transmitting in the 2305-2320 MHz band or the 2345-2360 MHz band.

(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) The following power and antenna height limits apply to transmitters operating in the 746-758 MHz, 775-788 MHz and 805-806 MHz bands:

(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) The following power and antenna height requirements apply to stations transmitting in the 600 MHz band and the 698-746 MHz band:

(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) The following power and antenna height requirements apply to stations transmitting 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 MHz bands:

(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.

(5) Equipment employed must be authorized in accordance with the provisions of §24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

(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.

- (k) The following power requirements apply to stations transmitting in the 3450-3550 MHz band:
- (3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.
- (4) Equipment employed must be authorized in accordance with the provisions of § 27.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (k)(5) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 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) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(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.

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

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:

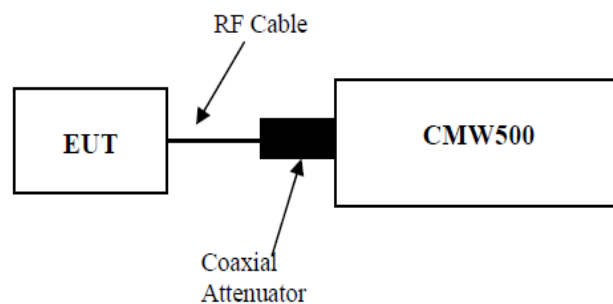
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

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 $\geq 3 \times \text{RBW}$.

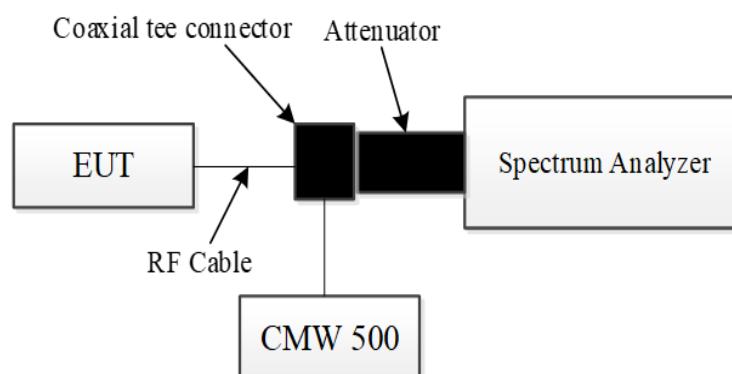
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

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:

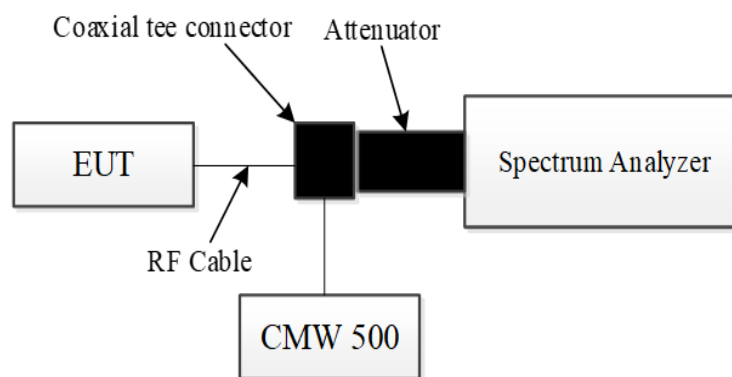


3.5.3 Transmitter unwanted emissions-at antenna terminals

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:

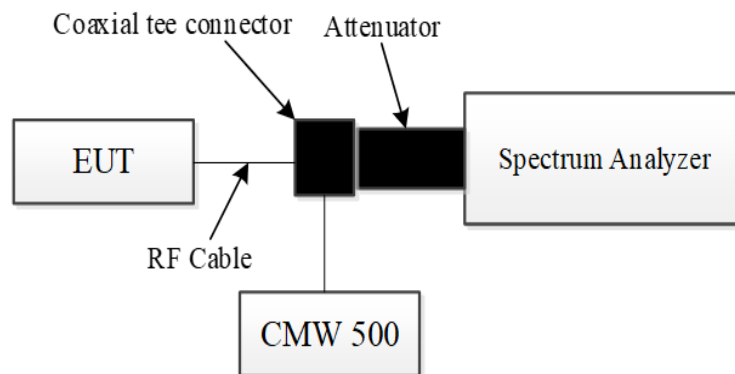


3.5.4 Out of band emission

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.

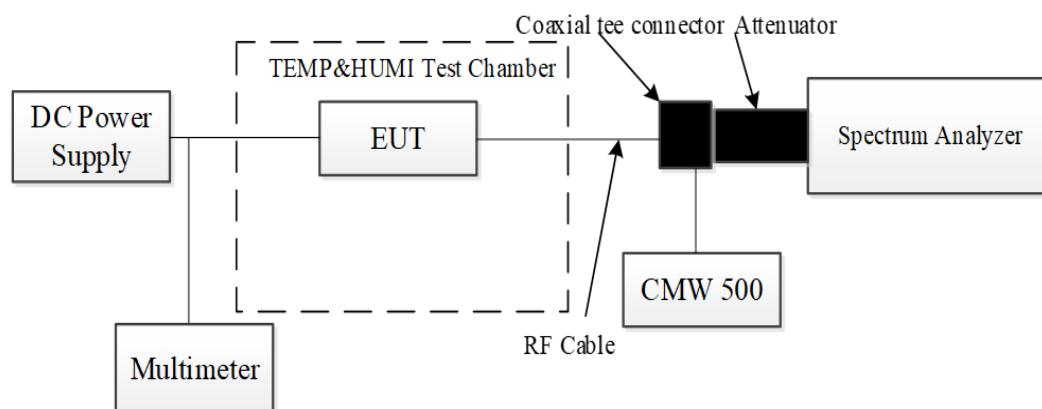
The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is 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 $\pm 15\%$ supply voltage variations. If a product is specified to operate over a range of input voltage, then the –15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

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

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

Test Setup Block:



3.5.6 Transmitter unwanted emissions-Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

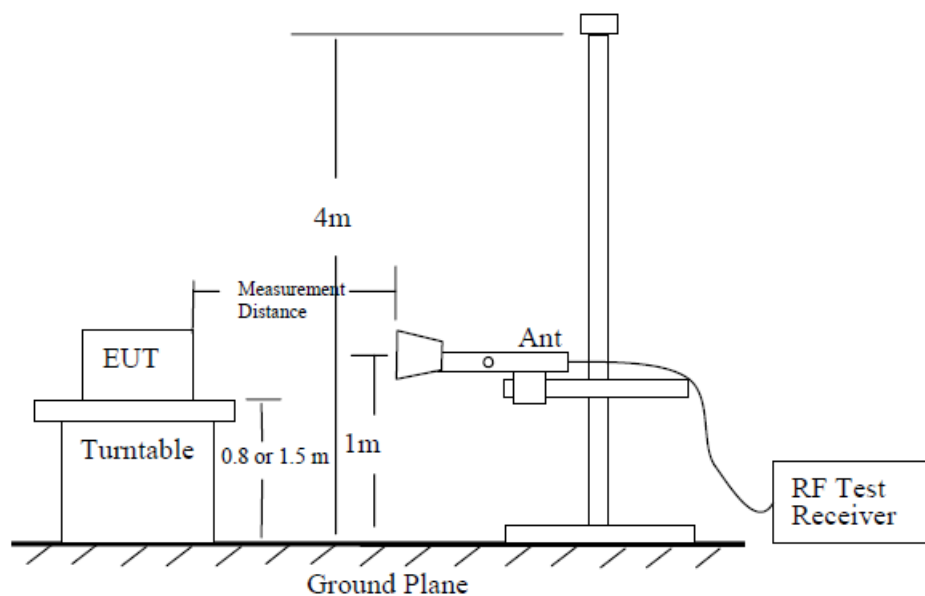


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

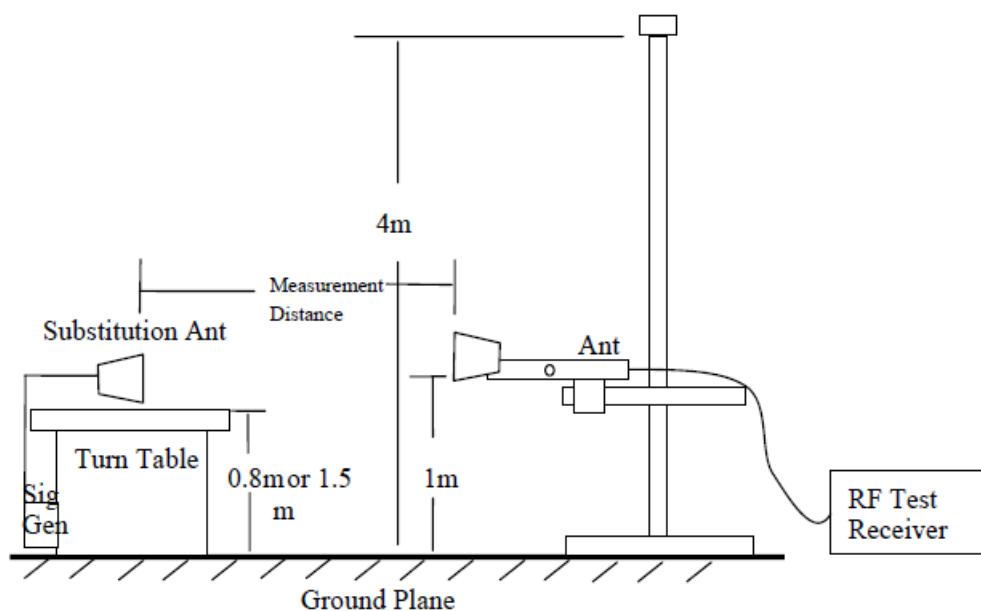


Figure 7—Substitution method set-up for radiated emission

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 = equivalent emission power in dBm

P_s = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

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

4. TEST DATA AND RESULTS

4.1 Radiated Spurious Emissions

4.1.1 30 MHz – 1 GHz

Sample Number:	357Q-1	Test Date:	2025/7/30
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	53	ATM Pressure: (kPa)	99.2
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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	2025/2/14	2026/2/13
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2024/12/3	2025/12/2
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2024/12/3	2025/12/2
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2025/6/4	2026/6/3
Sonoma	Amplifier	310N	186165	2024/12/3	2025/12/2
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2025/7/14	2026/7/13
Agilent	Signal Generator	E8247C	MY43321352	2025/1/9	2026/1/8

*** 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:

Main Antenna**GSM 850:**

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:			824.2	MHz				
418.62	H	20.53	-56.96	0.00	0.39	-57.35	-13.00	44.35
294.81	V	21.47	-56.33	0.00	0.33	-56.66	-13.00	43.66
Frequency:			836.6	MHz				
624.42	H	20.69	-53.04	0.00	0.48	-53.52	-13.00	40.52
511.36	V	21.57	-50.03	0.00	0.45	-50.48	-13.00	37.48
Frequency:			848.8	MHz				
574.22	H	20.48	-53.89	0.00	0.46	-54.35	-13.00	41.35
430.29	V	21.66	-52.69	0.00	0.40	-53.09	-13.00	40.09

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				
329.45	H	20.46	-58.49	0.00	0.34	-58.83	-13.00	45.83
476.89	V	21.35	-51.15	0.00	0.42	-51.57	-13.00	38.57
Frequency:			836.6	MHz				
654.24	H	20.65	-52.92	0.00	0.52	-53.44	-13.00	40.44
452.39	V	21.74	-51.73	0.00	0.43	-52.16	-13.00	39.16
Frequency:			846.6	MHz				
371.56	H	20.97	-57.34	0.00	0.37	-57.71	-13.00	44.71
541.28	V	21.58	-50.06	0.00	0.46	-50.52	-13.00	37.52

GSM 1900:

CONFIDENTIAL

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:			1850.2	MHz				
105.64	H	29.67	-82.62	0.00	0.19	-82.81	-13.00	69.81
94.15	V	32.35	-76.03	0.00	0.18	-76.21	-13.00	63.21
Frequency:			1880	MHz				
110.36	H	30.05	-82.17	0.00	0.19	-82.36	-13.00	69.36
86.54	V	32.38	-76.69	0.00	0.17	-76.86	-13.00	63.86
Frequency:			1909.8	MHz				
108.25	H	29.78	-82.47	0.00	0.19	-82.66	-13.00	69.66
83.27	V	31.95	-76.88	0.00	0.17	-77.05	-13.00	64.05

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				
248.45	H	29.78	-82.15	0.00	0.30	-82.45	-13.00	69.45
364.26	V	31.68	-75.46	0.00	0.37	-75.83	-13.00	62.83
Frequency:			1880	MHz				
107.55	H	30.17	-82.09	0.00	0.19	-82.28	-13.00	69.28
87.39	V	32.56	-76.57	0.00	0.17	-76.74	-13.00	63.74
Frequency:			1907.6	MHz				
103.25	H	30.28	-82.04	0.00	0.19	-82.23	-13.00	69.23
87.64	V	32.09	-77.06	0.00	0.17	-77.23	-13.00	64.23

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				
104.48	H	30.28	-82.03	0.00	0.19	-82.22	-13.00	69.22
85.33	V	32.76	-76.22	0.00	0.17	-76.39	-13.00	63.39
Frequency:			1732.6	MHz				
117.38	H	30.54	-81.59	0.00	0.20	-81.79	-13.00	68.79
92.31	V	33.01	-75.79	0.00	0.18	-75.97	-13.00	62.97
Frequency:			1752.6	MHz				
113.29	H	29.74	-82.44	0.00	0.20	-82.64	-13.00	69.64
84.26	V	32.53	-76.37	0.00	0.17	-76.54	-13.00	63.54

LTE Bands:

(The Worst modulation and bandwidth 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 RB1#0, Frequency: 1850.7 MHz								
120.31	H	31.01	-81.08	0.00	0.21	-81.29	-13.00	68.29
84.53	V	33.24	-75.68	0.00	0.17	-75.85	-13.00	62.85
1.4MHz QPSK RB1#0, Frequency: 1880 MHz								
108.73	H	30.05	-82.20	0.00	0.19	-82.39	-13.00	69.39
96.16	V	32.68	-75.23	0.00	0.19	-75.42	-13.00	62.42
1.4MHz QPSK RB1#0, Frequency: 1909.3 MHz								
100.23	H	30.14	-82.23	0.00	0.19	-82.42	-13.00	69.42
98.65	V	32.52	-74.82	0.00	0.19	-75.01	-13.00	62.01

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 RB1#0, Frequency:			1710.7			MHz		
106.38	H	30.02	-82.26	0.00	0.19	-82.45	-13.00	69.45
93.24	V	33.06	-75.52	0.00	0.18	-75.70	-13.00	62.70
1.4MHz QPSK RB1#0, Frequency:			1732.5			MHz		
121.14	H	30.53	-81.57	0.00	0.20	-81.77	-13.00	68.77
85.67	V	32.69	-76.32	0.00	0.17	-76.49	-13.00	63.49
1.4MHz QPSK RB1#0, Frequency:			1754.3			MHz		
116.48	H	30.21	-81.93	0.00	0.20	-82.13	-13.00	69.13
93.27	V	32.75	-75.83	0.00	0.18	-76.01	-13.00	63.01

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 RB1#0, Frequency:			824.7	MHz				
515.34	H	20.31	-55.22	0.00	0.44	-55.66	-13.00	42.66
624.08	V	21.53	-49.76	0.00	0.48	-50.24	-13.00	37.24
1.4MHz QPSK RB1#0, Frequency:			836.5	MHz				
562.16	H	20.66	-53.95	0.00	0.47	-54.42	-13.00	41.42
364.18	V	21.78	-54.49	0.00	0.37	-54.86	-13.00	41.86
1.4MHz QPSK RB1#0, Frequency:			848.3	MHz				
597.36	H	20.93	-52.98	0.00	0.51	-53.49	-13.00	40.49
416.68	V	21.55	-53.34	0.00	0.39	-53.73	-13.00	40.73

LTE Band 7:

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 RB1#0, Frequency: 2502.5 MHz								
120.18	H	30.12	-81.97	0.00	0.21	-82.18	-25.00	57.18
87.89	V	33.08	-76.09	0.00	0.17	-76.26	-25.00	51.26
5MHz QPSK RB1#0, Frequency: 2535 MHz								
109.66	H	30.73	-81.50	0.00	0.19	-81.69	-25.00	56.69
96.35	V	32.48	-75.39	0.00	0.19	-75.58	-25.00	50.58
5MHz QPSK RB1#0, Frequency: 2567.5 MHz								
115.58	H	30.18	-81.97	0.00	0.20	-82.17	-25.00	57.17
91.15	V	33.65	-75.42	0.00	0.18	-75.60	-25.00	50.60

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 RB1#0, Frequency:			699.7 MHz					
235.58	H	20.77	-60.17	0.00	0.29	-60.46	-13.00	47.46
483.24	V	21.69	-50.56	0.00	0.42	-50.98	-13.00	37.98
1.4MHz QPSK RB1#0, Frequency:			707.5 MHz					
315.14	H	20.48	-58.69	0.00	0.34	-59.03	-13.00	46.03
546.36	V	21.35	-50.30	0.00	0.47	-50.77	-13.00	37.77
1.4MHz QPSK RB1#0, Frequency:			715.3 MHz					
515.34	H	20.31	-55.22	0.00	0.44	-55.66	-13.00	42.66
624.08	V	21.53	-49.76	0.00	0.48	-50.24	-13.00	37.24

LTE Band 17:

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 RB1#0, Frequency:			706.5	MHz				
663.18	H	20.93	-52.59	0.00	0.50	-53.09	-13.00	40.09
548.43	V	21.65	-50.00	0.00	0.47	-50.47	-13.00	37.47
5MHz QPSK RB1#0, Frequency:			710	MHz				
429.32	H	20.73	-56.54	0.00	0.40	-56.94	-13.00	43.94
345.68	V	21.86	-54.78	0.00	0.37	-55.15	-13.00	42.15
5MHz QPSK RB1#0, Frequency:			713.5	MHz				
473.62	H	20.84	-55.53	0.00	0.42	-55.95	-13.00	42.95
355.91	V	22.05	-54.39	0.00	0.36	-54.75	-13.00	41.75

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 RB1#0, Frequency:			814.7	MHz				
627.19	H	21.02	-52.69	0.00	0.48	-53.17	-13.00	40.17
702.63	V	22.37	-47.49	0.00	0.55	-48.04	-13.00	35.04
1.4MHz QPSK RB1#0, Frequency:			831.5	MHz				
547.15	H	20.59	-54.31	0.00	0.47	-54.78	-13.00	41.78
399.26	V	22.06	-53.50	0.00	0.40	-53.90	-13.00	40.90
1.4MHz QPSK RB1#0, Frequency:			848.3	MHz				
544.24	H	20.47	-54.49	0.00	0.47	-54.96	-13.00	41.96
156.94	V	22.63	-54.06	0.00	0.23	-54.29	-13.00	41.29

LTE Band 38:

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 RB1#0, Frequency:			2572.5	MHz				
112.39	H	30.70	-81.50	0.00	0.19	-81.69	-25.00	56.69
95.31	V	32.08	-76.03	0.00	0.19	-76.22	-25.00	51.22
1.4MHz QPSK RB1#0, Frequency:			2595	MHz				
105.66	H	30.18	-82.11	0.00	0.19	-82.30	-25.00	57.30
85.63	V	32.37	-76.63	0.00	0.17	-76.80	-25.00	51.80
1.4MHz QPSK RB1#0, Frequency:			2617.5	MHz				
116.85	H	30.44	-81.69	0.00	0.20	-81.89	-25.00	56.89
83.52	V	32.31	-76.53	0.00	0.17	-76.70	-25.00	51.70

LTE Band 41(2535- 2655 MHz):

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 RB1#0, Frequency: 2537.5 MHz								
118.64	H	30.41	-81.70	0.00	0.20	-81.90	-25.00	56.90
89.63	V	32.67	-76.63	0.00	0.18	-76.81	-25.00	51.81
5MHz QPSK RB1#0, Frequency: 2595 MHz								
123.18	H	30.14	-81.98	0.00	0.20	-82.18	-25.00	57.18
94.54	V	32.54	-75.75	0.00	0.19	-75.94	-25.00	50.94
5MHz QPSK RB1#0, Frequency: 2652.5 MHz								
113.31	H	30.85	-81.33	0.00	0.20	-81.53	-25.00	56.53
98.65	V	33.05	-74.29	0.00	0.19	-74.48	-25.00	49.48

LTE Band 66:

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 RB1#0, Frequency:			1710.7 MHz					
124.18	H	29.48	-82.65	0.00	0.21	-82.86	-13.00	69.86
85.16	V	32.36	-76.61	0.00	0.17	-76.78	-13.00	63.78
1.4MHz QPSK RB1#0, Frequency:			1745 MHz					
107.15	H	29.77	-82.50	0.00	0.19	-82.69	-13.00	69.69
96.23	V	32.56	-75.34	0.00	0.19	-75.53	-13.00	62.53
1.4MHz QPSK RB1#0, Frequency:			1779.3 MHz					
112.48	H	30.45	-81.75	0.00	0.19	-81.94	-13.00	68.94
88.47	V	32.08	-77.14	0.00	0.17	-77.31	-13.00	64.31

DIV Antenna**GSM 850:**

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:			824.2	MHz				
365.18	H	20.46	-57.94	0.00	0.37	-58.31	-13.00	45.31
546.97	V	21.84	-49.81	0.00	0.47	-50.28	-13.00	37.28
Frequency:			836.6	MHz				
515.34	H	20.31	-55.22	0.00	0.44	-55.66	-13.00	42.66
624.08	V	21.53	-49.76	0.00	0.48	-50.24	-13.00	37.24
Frequency:			848.8	MHz				
558.66	H	20.79	-53.88	0.00	0.48	-54.36	-13.00	41.36
328.49	V	21.58	-55.41	0.00	0.34	-55.75	-13.00	42.75

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				
648.26	H	20.77	-52.83	0.00	0.52	-53.35	-13.00	40.35
284.69	V	21.58	-56.70	0.00	0.32	-57.02	-13.00	44.02
Frequency:			836.6	MHz				
472.36	H	20.36	-56.03	0.00	0.43	-56.46	-13.00	43.46
584.25	V	21.48	-50.23	0.00	0.46	-50.69	-13.00	37.69
Frequency:			846.6	MHz				
544.26	H	20.69	-54.27	0.00	0.47	-54.74	-13.00	41.74
273.11	V	21.78	-57.04	0.00	0.32	-57.36	-13.00	44.36

GSM 1900:

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:			1850.2	MHz				
113.28	H	29.96	-82.22	0.00	0.20	-82.42	-13.00	69.42
85.36	V	32.61	-76.37	0.00	0.17	-76.54	-13.00	63.54
Frequency:			1880	MHz				
117.54	H	29.85	-82.27	0.00	0.20	-82.47	-13.00	69.47
95.31	V	32.55	-75.56	0.00	0.19	-75.75	-13.00	62.75
Frequency:			1909.8	MHz				
124.33	H	30.12	-82.02	0.00	0.21	-82.23	-13.00	69.23
89.51	V	32.58	-76.71	0.00	0.18	-76.89	-13.00	63.89

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				
105.16	H	29.48	-82.82	0.00	0.19	-83.01	-13.00	70.01
89.33	V	32.17	-77.11	0.00	0.18	-77.29	-13.00	64.29
Frequency:			1880	MHz				
126.62	H	30.28	-81.88	0.00	0.21	-82.09	-13.00	69.09
89.74	V	32.06	-77.25	0.00	0.18	-77.43	-13.00	64.43
Frequency:			1907.6	MHz				
109.36	H	29.76	-82.48	0.00	0.19	-82.67	-13.00	69.67
98.58	V	32.51	-74.85	0.00	0.19	-75.04	-13.00	62.04

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				
114.55	H	30.05	-82.12	0.00	0.20	-82.32	-13.00	69.32
84.12	V	32.17	-76.72	0.00	0.17	-76.89	-13.00	63.89
Frequency:			1732.6	MHz				
105.54	H	30.10	-82.19	0.00	0.19	-82.38	-13.00	69.38
87.51	V	32.20	-76.94	0.00	0.17	-77.11	-13.00	64.11
Frequency:			1752.6	MHz				
113.27	H	29.84	-82.34	0.00	0.20	-82.54	-13.00	69.54
89.45	V	32.15	-77.14	0.00	0.18	-77.32	-13.00	64.32

LTE Bands:

(The Worst modulation and bandwidth 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 RB1#0, Frequency: 1850.7 MHz								
110.25	H	29.47	-82.76	0.00	0.19	-82.95	-13.00	69.95
86.21	V	32.16	-76.89	0.00	0.17	-77.06	-13.00	64.06
1.4MHz QPSK RB1#0, Frequency: 1880 MHz								
117.44	H	29.85	-82.28	0.00	0.20	-82.48	-13.00	69.48
84.15	V	32.55	-76.34	0.00	0.17	-76.51	-13.00	63.51
1.4MHz QPSK RB1#0, Frequency: 1909.3 MHz								
142.16	H	30.25	-81.97	0.00	0.21	-82.18	-13.00	69.18
88.25	V	32.74	-76.46	0.00	0.17	-76.63	-13.00	63.63

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 RB1#0, Frequency:			1710.7			MHz		
115.44	H	30.15	-82.00	0.00	0.20	-82.20	-13.00	69.20
85.54	V	32.67	-76.33	0.00	0.17	-76.50	-13.00	63.50
1.4MHz QPSK RB1#0, Frequency:			1732.5			MHz		
124.75	H	30.15	-81.99	0.00	0.21	-82.20	-13.00	69.20
93.52	V	32.47	-76.05	0.00	0.18	-76.23	-13.00	63.23
1.4MHz QPSK RB1#0, Frequency:			1754.3			MHz		
117.41	H	30.58	-81.55	0.00	0.20	-81.75	-13.00	68.75
86.22	V	32.16	-76.89	0.00	0.17	-77.06	-13.00	64.06

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 RB1#0, Frequency:			824.7	MHz				
627.45	H	20.88	-52.83	0.00	0.48	-53.31	-13.00	40.31
458.53	V	21.56	-51.67	0.00	0.41	-52.08	-13.00	39.08
1.4MHz QPSK RB1#0, Frequency:			836.5	MHz				
377.45	H	20.74	-57.48	0.00	0.37	-57.85	-13.00	44.85
562.31	V	21.83	-49.84	0.00	0.47	-50.31	-13.00	37.31
1.4MHz QPSK RB1#0, Frequency:			848.3	MHz				
478.56	H	20.45	-55.82	0.00	0.41	-56.23	-13.00	43.23
414.25	V	21.58	-53.40	0.00	0.39	-53.79	-13.00	40.79

LTE Band 7:

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 RB1#0, Frequency: 2502.5 MHz								
123.05	H	30.14	-81.98	0.00	0.20	-82.18	-25.00	57.18
94.41	V	32.57	-75.75	0.00	0.18	-75.93	-25.00	50.93
5MHz QPSK RB1#0, Frequency: 2535 MHz								
115.24	H	30.27	-81.89	0.00	0.20	-82.09	-25.00	57.09
86.57	V	32.68	-76.39	0.00	0.17	-76.56	-25.00	51.56
5MHz QPSK RB1#0, Frequency: 2567.5 MHz								
112.55	H	30.11	-82.08	0.00	0.20	-82.28	-25.00	57.28
98.33	V	32.77	-74.64	0.00	0.19	-74.83	-25.00	49.83

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 RB1#0, Frequency:			699.7	MHz				
621.45	H	20.78	-52.96	0.00	0.49	-53.45	-13.00	40.45
452.82	V	21.58	-51.87	0.00	0.42	-52.29	-13.00	39.29
1.4MHz QPSK RB1#0, Frequency:			707.5	MHz				
567.97	H	20.54	-53.95	0.00	0.46	-54.41	-13.00	41.41
448.15	V	21.63	-52.01	0.00	0.43	-52.44	-13.00	39.44
1.4MHz QPSK RB1#0, Frequency:			715.3	MHz				
513.28	H	20.88	-54.69	0.00	0.44	-55.13	-13.00	42.13
458.23	V	21.59	-51.65	0.00	0.41	-52.06	-13.00	39.06

LTE Band 17:

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 RB1#0, Frequency:			706.5	MHz				
584.16	H	20.54	-53.63	0.00	0.46	-54.09	-13.00	41.09
488.25	V	21.47	-50.58	0.00	0.44	-51.02	-13.00	38.02
5MHz QPSK RB1#0, Frequency:			710	MHz				
362.47	H	20.46	-57.98	0.00	0.37	-58.35	-13.00	45.35
471.22	V	21.71	-51.01	0.00	0.43	-51.44	-13.00	38.44
5MHz QPSK RB1#0, Frequency:			713.5	MHz				
746.54	H	20.85	-51.53	0.00	0.55	-52.08	-13.00	39.08
442.25	V	21.57	-52.30	0.00	0.42	-52.72	-13.00	39.72

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 RB1#0, Frequency:			814.7	MHz				
651.92	H	20.48	-53.10	0.00	0.52	-53.62	-13.00	40.62
541.66	V	21.69	-49.95	0.00	0.46	-50.41	-13.00	37.41
1.4MHz QPSK RB1#0, Frequency:			831.5	MHz				
561.89	H	20.81	-53.80	0.00	0.47	-54.27	-13.00	41.27
582.62	V	21.67	-50.03	0.00	0.46	-50.49	-13.00	37.49
1.4MHz QPSK RB1#0, Frequency:			848.3	MHz				
351.18	H	20.46	-58.16	0.00	0.36	-58.52	-13.00	45.52
418.65	V	21.58	-53.23	0.00	0.39	-53.62	-13.00	40.62

LTE Band 38:

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 RB1#0, Frequency:			2572.5	MHz				
108.64	H	29.84	-82.41	0.00	0.19	-82.60	-25.00	57.60
89.65	V	32.10	-77.20	0.00	0.18	-77.38	-25.00	52.38
1.4MHz QPSK RB1#0, Frequency:			2595	MHz				
123.15	H	29.15	-82.97	0.00	0.20	-83.17	-25.00	58.17
98.62	V	32.38	-74.97	0.00	0.19	-75.16	-25.00	50.16
1.4MHz QPSK RB1#0, Frequency:			2617.5	MHz				
114.58	H	29.18	-82.99	0.00	0.20	-83.19	-25.00	58.19
97.35	V	32.05	-75.59	0.00	0.19	-75.78	-25.00	50.78

LTE Band 41(2535- 2655 MHz):

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 RB1#0, Frequency: 2537.5 MHz								
105.65	H	30.41	-81.88	0.00	0.19	-82.07	-25.00	57.07
87.55	V	32.09	-77.06	0.00	0.17	-77.23	-25.00	52.23
5MHz QPSK RB1#0, Frequency: 2595 MHz								
113.25	H	29.86	-82.32	0.00	0.20	-82.52	-25.00	57.52
93.15	V	32.17	-76.44	0.00	0.18	-76.62	-25.00	51.62
5MHz QPSK RB1#0, Frequency: 2652.5 MHz								
107.53	H	30.21	-82.05	0.00	0.19	-82.24	-25.00	57.24
85.69	V	32.16	-76.85	0.00	0.17	-77.02	-25.00	52.02

LTE Band 66:

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 RB1#0, Frequency:			1710.7 MHz					
105.66	H	29.47	-82.82	0.00	0.19	-83.01	-13.00	70.01
95.63	V	32.63	-75.41	0.00	0.19	-75.60	-13.00	62.60
1.4MHz QPSK RB1#0, Frequency:			1745 MHz					
102.32	H	29.15	-83.19	0.00	0.19	-83.38	-13.00	70.38
87.56	V	32.35	-76.80	0.00	0.17	-76.97	-13.00	63.97
1.4MHz QPSK RB1#0, Frequency:			1779.3 MHz					
99.85	H	29.78	-82.60	0.00	0.19	-82.79	-13.00	69.79
86.23	V	32.10	-76.95	0.00	0.17	-77.12	-13.00	64.12

Note 1:

The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

4.1.2 Above 1 GHz

Sample Number	357Q-1	Test Date:	2025/8/25
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Peter Rong	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.4	Relative Humidity: (%)	67	ATM Pressure: (kPa)	100.4
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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	2025/3/31	2026/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/1/10	2026/1/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/1/10	2026/1/9
A.H	Pre-amplifier	PAM-0118P	628	2025/5/23	2026/5/22
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2023/2/22	2026/2/21
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2025/7/14	2026/7/13
Agilent	Signal Generator	E8247C	MY43321352	2025/1/9	2026/1/8
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	2025/1/6	2026/1/5
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2024/2/4	2027/2/3
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2024/2/4	2027/2/3
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/1/6	2026/1/5
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2025/8/4	2026/8/3
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2025/8/4	2026/8/3

*** 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:

Only DIV Antenna was performed to test, since the gain of DIV Antenna was change.
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

DIV Antenna
GSM850(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: 824.2 MHz								
1648.400	H	59.40	-62.41	8.68	0.80	-54.53	-13.00	41.53
1648.400	V	53.24	-68.65	8.68	0.80	-60.77	-13.00	47.77
2472.600	H	63.30	-53.97	9.38	1.00	-45.59	-13.00	32.59
2472.600	V	59.74	-57.48	9.38	1.00	-49.10	-13.00	36.10
3296.800	H	44.58	-68.22	10.32	1.15	-59.05	-13.00	46.05
3296.800	V	43.97	-68.58	10.32	1.15	-59.41	-13.00	46.41
Frequency: 836.6 MHz								
1673.200	H	62.33	-59.44	8.71	0.85	-51.58	-13.00	38.58
1673.200	V	54.38	-67.49	8.71	0.85	-59.63	-13.00	46.63
2509.800	H	62.98	-54.02	9.42	1.01	-45.61	-13.00	32.61
2509.800	V	59.84	-57.17	9.42	1.01	-48.76	-13.00	35.76
3346.400	H	43.58	-69.76	10.34	1.16	-60.58	-13.00	47.58
3346.400	V	43.91	-69.29	10.34	1.16	-60.11	-13.00	47.11
Frequency: 848.8 MHz								
1697.600	H	67.55	-54.17	8.74	0.90	-46.33	-13.00	33.33
1697.600	V	52.05	-69.80	8.74	0.90	-61.96	-13.00	48.96
2546.400	H	61.33	-55.36	9.47	1.01	-46.90	-13.00	33.90
2546.400	V	59.48	-57.16	9.47	1.01	-48.70	-13.00	35.70
3395.200	H	44.92	-69.00	10.36	1.19	-59.83	-13.00	46.83
3395.200	V	43.82	-70.07	10.36	1.19	-60.90	-13.00	47.90

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	46.95	-74.85	8.68	0.81	-66.98	-13.00	53.98
1652.800	V	48.14	-73.75	8.68	0.81	-65.88	-13.00	52.88
2479.200	H	47.72	-69.50	9.39	1.01	-61.12	-13.00	48.12
2479.200	V	48.15	-69.04	9.39	1.01	-60.66	-13.00	47.66
3305.600	H	45.17	-67.68	10.32	1.15	-58.51	-13.00	45.51
3305.600	V	43.70	-68.92	10.32	1.15	-59.75	-13.00	46.75
Frequency:			836.6	MHz				
1673.200	H	58.88	-62.89	8.71	0.85	-55.03	-13.00	42.03
1673.200	V	49.40	-72.47	8.71	0.85	-64.61	-13.00	51.61
2509.800	H	47.38	-69.62	9.42	1.01	-61.21	-13.00	48.21
2509.800	V	46.58	-70.43	9.42	1.01	-62.02	-13.00	49.02
3346.400	H	43.68	-69.66	10.34	1.16	-60.48	-13.00	47.48
3346.400	V	44.16	-69.04	10.34	1.16	-59.86	-13.00	46.86
Frequency:			846.6	MHz				
1693.200	H	48.06	-73.67	8.73	0.89	-65.83	-13.00	52.83
1693.200	V	47.68	-74.18	8.73	0.89	-66.34	-13.00	53.34
2539.800	H	47.79	-68.96	9.46	1.01	-60.51	-13.00	47.51
2539.800	V	48.47	-68.24	9.46	1.01	-59.79	-13.00	46.79
3386.400	H	44.40	-69.42	10.35	1.18	-60.25	-13.00	47.25
3386.400	V	44.42	-69.35	10.35	1.18	-60.18	-13.00	47.18

GSM1900(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: 1850.2 MHz								
3700.400	H	47.60	-66.39	10.60	1.25	-57.04	-13.00	44.04
3700.400	V	47.85	-66.12	10.60	1.25	-56.77	-13.00	43.77
5550.600	H	59.21	-51.40	11.44	1.49	-41.45	-13.00	28.45
5550.600	V	59.13	-51.31	11.44	1.49	-41.36	-13.00	28.36
Frequency: 1880 MHz								
3760.000	H	47.17	-65.94	10.66	1.24	-56.52	-13.00	43.52
3760.000	V	49.06	-63.94	10.66	1.24	-54.52	-13.00	41.52
5640.000	H	58.12	-52.86	11.33	1.54	-43.07	-13.00	30.07
5640.000	V	53.72	-57.14	11.33	1.54	-47.35	-13.00	34.35
Frequency: 1909.8 MHz								
3819.600	H	49.86	-62.74	10.72	1.29	-53.31	-13.00	40.31
3819.600	V	50.48	-61.97	10.72	1.29	-52.54	-13.00	39.54
5729.400	H	57.39	-53.92	11.22	1.59	-44.29	-13.00	31.29
5729.400	V	57.33	-53.85	11.22	1.59	-44.22	-13.00	31.22

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	44.47	-69.46	10.60	1.25	-60.11	-13.00	47.11
3704.800	V	45.18	-68.72	10.60	1.25	-59.37	-13.00	46.37
5557.200	H	46.39	-64.24	11.43	1.49	-54.30	-13.00	41.30
5557.200	V	45.57	-64.91	11.43	1.49	-54.97	-13.00	41.97
Frequency:			1880	MHz				
3760.000	H	45.53	-67.58	10.66	1.24	-58.16	-13.00	45.16
3760.000	V	45.84	-67.16	10.66	1.24	-57.74	-13.00	44.74
5640.000	H	45.96	-65.02	11.33	1.54	-55.23	-13.00	42.23
5640.000	V	45.57	-65.29	11.33	1.54	-55.50	-13.00	42.50
Frequency:			1907.6	MHz				
3815.200	H	44.95	-67.63	10.72	1.29	-58.20	-13.00	45.20
3815.200	V	45.61	-66.82	10.72	1.29	-57.39	-13.00	44.39
5722.800	H	44.67	-66.63	11.23	1.58	-56.98	-13.00	43.98
5722.800	V	45.27	-65.90	11.23	1.58	-56.25	-13.00	43.25

WCDMA Band 4(1-18GHz):

WGBH Data (1/1/2017)								
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	51.98	-62.07	10.37	1.17	-52.87	-13.00	39.87
3424.800	V	50.21	-63.81	10.37	1.17	-54.61	-13.00	41.61
5137.200	H	50.27	-60.61	11.28	1.46	-50.79	-13.00	37.79
5137.200	V	52.09	-58.68	11.28	1.46	-48.86	-13.00	35.86
Frequency:			1732.6 MHz					
3465.200	H	44.90	-69.27	10.39	1.15	-60.03	-13.00	47.03
3465.200	V	44.28	-69.84	10.39	1.15	-60.60	-13.00	47.60
5197.800	H	49.68	-61.75	11.32	1.44	-51.87	-13.00	38.87
5197.800	V	54.48	-56.80	11.32	1.44	-46.92	-13.00	33.92
Frequency:			1752.6 MHz					
3505.200	H	43.96	-70.30	10.41	1.18	-61.07	-13.00	48.07
3505.200	V	44.70	-69.49	10.41	1.18	-60.26	-13.00	47.26
5257.800	H	54.72	-56.43	11.35	1.47	-46.55	-13.00	33.55
5257.800	V	54.53	-56.40	11.35	1.47	-46.52	-13.00	33.52

LTE Bands:

(The Worst modulation and bandwidth 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 RB1#0, Frequency: 1850.7 MHz								
3701.400	H	49.13	-64.85	10.60	1.25	-55.50	-13.00	42.50
3701.400	V	49.57	-64.39	10.60	1.25	-55.04	-13.00	42.04
5552.100	H	49.09	-61.52	11.44	1.49	-51.57	-13.00	38.57
5552.100	V	52.54	-57.91	11.44	1.49	-47.96	-13.00	34.96
1.4MHz QPSK RB1#0, Frequency: 1880 MHz								
3760.000	H	45.28	-67.83	10.66	1.24	-58.41	-13.00	45.41
3760.000	V	45.97	-67.03	10.66	1.24	-57.61	-13.00	44.61
5640.000	H	46.47	-64.51	11.33	1.54	-54.72	-13.00	41.72
5640.000	V	49.70	-61.16	11.33	1.54	-51.37	-13.00	38.37
1.4MHz QPSK RB1#0, Frequency: 1909.3 MHz								
3818.600	H	49.87	-62.72	10.72	1.29	-53.29	-13.00	40.29
3818.600	V	45.26	-67.19	10.72	1.29	-57.76	-13.00	44.76
5727.900	H	47.24	-64.06	11.23	1.59	-54.42	-13.00	41.42
5727.900	V	49.16	-62.02	11.23	1.59	-52.38	-13.00	39.38

LTE 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)			
1.4MHz QPSK RB1#0, Frequency: 1710.7 MHz								
3421.400	H	47.63	-66.41	10.37	1.17	-57.21	-13.00	44.21
3421.400	V	45.85	-68.16	10.37	1.17	-58.96	-13.00	45.96
5132.100	H	55.07	-55.76	11.28	1.47	-45.95	-13.00	32.95
5132.100	V	57.52	-53.20	11.28	1.47	-43.39	-13.00	30.39
1.4MHz QPSK RB1#0, Frequency: 1732.5 MHz								
3465.000	H	45.63	-68.54	10.39	1.15	-59.30	-13.00	46.30
3465.000	V	44.59	-69.53	10.39	1.15	-60.29	-13.00	47.29
5197.500	H	55.45	-55.98	11.32	1.44	-46.10	-13.00	33.10
5197.500	V	56.74	-54.54	11.32	1.44	-44.66	-13.00	31.66
1.4MHz QPSK RB1#0, Frequency: 1754.3 MHz								
3508.600	H	46.52	-67.73	10.41	1.19	-58.51	-13.00	45.51
3508.600	V	45.23	-68.95	10.41	1.19	-59.73	-13.00	46.73
5262.900	H	54.74	-56.38	11.36	1.47	-46.49	-13.00	33.49
5262.900	V	55.78	-55.12	11.36	1.47	-45.23	-13.00	32.23

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 RB1#0, Frequency: 824.7 MHz								
1649.400	H	50.91	-70.90	8.68	0.80	-63.02	-13.00	50.02
1649.400	V	55.32	-66.57	8.68	0.80	-58.69	-13.00	45.69
2474.100	H	53.48	-63.78	9.38	1.00	-55.40	-13.00	42.40
2474.100	V	54.87	-62.34	9.38	1.00	-53.96	-13.00	40.96
3298.800	H	44.41	-68.38	10.32	1.15	-59.21	-13.00	46.21
3298.800	V	45.83	-66.72	10.32	1.15	-57.55	-13.00	44.55
1.4MHz QPSK RB1#0, Frequency: 836.5 MHz								
1673.000	H	53.72	-68.05	8.71	0.85	-60.19	-13.00	47.19
1673.000	V	52.31	-69.56	8.71	0.85	-61.70	-13.00	48.70
2509.500	H	57.46	-59.54	9.42	1.01	-51.13	-13.00	38.13
2509.500	V	55.39	-61.62	9.42	1.01	-53.21	-13.00	40.21
3346.000	H	44.51	-68.82	10.34	1.16	-59.64	-13.00	46.64
3346.000	V	44.49	-68.70	10.34	1.16	-59.52	-13.00	46.52
1.4MHz QPSK RB1#0, Frequency: 848.3 MHz								
1696.600	H	52.69	-69.04	8.74	0.89	-61.19	-13.00	48.19
1696.600	V	51.01	-70.84	8.74	0.89	-62.99	-13.00	49.99
2544.900	H	54.12	-62.58	9.47	1.01	-54.12	-13.00	41.12
2544.900	V	55.69	-60.97	9.47	1.01	-52.51	-13.00	39.51
3393.200	H	44.39	-69.51	10.36	1.19	-60.34	-13.00	47.34
3393.200	V	44.66	-69.20	10.36	1.19	-60.03	-13.00	47.03

LTE Band 7(1-26GHz):

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 RB1#0, Frequency: 2502.5 MHz								
5005.000	H	48.91	-61.41	11.20	1.47	-51.68	-25.00	26.68
5005.000	V	45.72	-64.46	11.20	1.47	-54.73	-25.00	29.73
7507.500	H	44.98	-61.40	10.90	1.95	-52.45	-25.00	27.45
7507.500	V	45.22	-61.66	10.90	1.95	-52.71	-25.00	27.71
5MHz QPSK RB1#0, Frequency: 2535 MHz								
5070.000	H	53.88	-56.59	11.24	1.47	-46.82	-25.00	21.82
5070.000	V	47.49	-62.88	11.24	1.47	-53.11	-25.00	28.11
7605.000	H	47.76	-58.36	10.88	2.01	-49.49	-25.00	24.49
7605.000	V	47.01	-59.83	10.88	2.01	-50.96	-25.00	25.96
5MHz QPSK RB1#0, Frequency: 2567.5 MHz								
5135.000	H	60.45	-50.41	11.28	1.47	-40.60	-25.00	15.60
5135.000	V	49.29	-61.46	11.28	1.47	-51.65	-25.00	26.65
7702.500	H	47.12	-59.00	10.86	1.97	-50.11	-25.00	25.11
7702.500	V	46.95	-59.83	10.86	1.97	-50.94	-25.00	25.94

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 RB1#0, Frequency: 699.7 MHz								
1399.400	H	55.78	-65.51	8.22	0.71	-58.00	-13.00	45.00
1399.400	V	54.62	-66.71	8.22	0.71	-59.20	-13.00	46.20
2099.100	H	49.68	-69.35	9.16	0.91	-61.10	-13.00	48.10
2099.100	V	48.80	-70.18	9.16	0.91	-61.93	-13.00	48.93
2798.800	H	47.91	-68.32	9.88	1.04	-59.48	-13.00	46.48
2798.800	V	48.16	-67.94	9.88	1.04	-59.10	-13.00	46.10
1.4MHz QPSK RB1#0, Frequency: 707.5 MHz								
1415.000	H	51.57	-69.68	8.26	0.72	-62.14	-13.00	49.14
1415.000	V	51.24	-70.06	8.26	0.72	-62.52	-13.00	49.52
2122.500	H	52.59	-66.54	9.17	0.92	-58.29	-13.00	45.29
2122.500	V	49.01	-70.11	9.17	0.92	-61.86	-13.00	48.86
2830.000	H	46.73	-69.36	9.93	1.06	-60.49	-13.00	47.49
2830.000	V	46.87	-69.16	9.93	1.06	-60.29	-13.00	47.29
1.4MHz QPSK RB1#0, Frequency: 715.3 MHz								
1430.600	H	53.46	-67.74	8.31	0.73	-60.16	-13.00	47.16
1430.600	V	51.33	-69.92	8.31	0.73	-62.34	-13.00	49.34
2145.900	H	49.82	-69.42	9.19	0.93	-61.16	-13.00	48.16
2145.900	V	49.09	-70.17	9.19	0.93	-61.91	-13.00	48.91
2861.200	H	46.41	-69.53	9.98	1.07	-60.62	-13.00	47.62
2861.200	V	46.19	-69.76	9.98	1.07	-60.85	-13.00	47.85

LTE Band 17(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 RB1#0, Frequency: 706.5 MHz								
1413.000	H	49.20	-72.06	8.26	0.72	-64.52	-13.00	51.52
1413.000	V	49.63	-71.67	8.26	0.72	-64.13	-13.00	51.13
2119.500	H	48.02	-71.10	9.17	0.92	-62.85	-13.00	49.85
2119.500	V	48.47	-70.63	9.17	0.92	-62.38	-13.00	49.38
2826.000	H	47.66	-68.45	9.92	1.06	-59.59	-13.00	46.59
2826.000	V	46.92	-69.12	9.92	1.06	-60.26	-13.00	47.26
5MHz QPSK RB1#0, Frequency: 710 MHz								
1420.000	H	51.80	-69.43	8.28	0.73	-61.88	-13.00	48.88
1420.000	V	51.24	-70.04	8.28	0.73	-62.49	-13.00	49.49
2130.000	H	52.27	-66.90	9.18	0.92	-58.64	-13.00	45.64
2130.000	V	49.21	-69.95	9.18	0.92	-61.69	-13.00	48.69
2840.000	H	46.91	-69.13	9.94	1.06	-60.25	-13.00	47.25
2840.000	V	46.79	-69.21	9.94	1.06	-60.33	-13.00	47.33
5MHz QPSK RB1#0, Frequency: 713.5 MHz								
1427.000	H	52.67	-68.54	8.30	0.73	-60.97	-13.00	47.97
1427.000	V	51.62	-69.64	8.30	0.73	-62.07	-13.00	49.07
2140.500	H	48.69	-70.53	9.18	0.93	-62.28	-13.00	49.28
2140.500	V	48.34	-70.88	9.18	0.93	-62.63	-13.00	49.63
2854.000	H	47.21	-68.77	9.97	1.07	-59.87	-13.00	46.87
2854.000	V	47.85	-68.12	9.97	1.07	-59.22	-13.00	46.22

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 RB1#0, Frequency: 814.7 MHz								
1629.400	H	54.69	-67.16	8.66	0.81	-59.31	-13.00	46.31
1629.400	V	53.27	-68.64	8.66	0.81	-60.79	-13.00	47.79
2444.100	H	53.01	-64.45	9.37	1.00	-56.08	-13.00	43.08
2444.100	V	52.22	-65.11	9.37	1.00	-56.74	-13.00	43.74
3258.800	H	45.69	-67.28	10.30	1.17	-58.15	-13.00	45.15
3258.800	V	45.33	-67.40	10.30	1.17	-58.27	-13.00	45.27
1.4MHz QPSK RB1#0, Frequency: 831.5 MHz								
1663.000	H	52.97	-68.82	8.70	0.83	-60.95	-13.00	47.95
1663.000	V	52.80	-69.08	8.70	0.83	-61.21	-13.00	48.21
2494.500	H	52.78	-64.34	9.40	1.01	-55.95	-13.00	42.95
2494.500	V	51.79	-65.34	9.40	1.01	-56.95	-13.00	43.95
3326.000	H	45.63	-67.46	10.33	1.16	-58.29	-13.00	45.29
3326.000	V	44.87	-68.04	10.33	1.16	-58.87	-13.00	45.87
1.4MHz QPSK RB1#0, Frequency: 848.3 MHz								
1696.600	H	51.74	-69.99	8.74	0.89	-62.14	-13.00	49.14
1696.600	V	50.65	-71.20	8.74	0.89	-63.35	-13.00	50.35
2544.900	H	54.61	-62.09	9.47	1.01	-53.63	-13.00	40.63
2544.900	V	53.36	-63.30	9.47	1.01	-54.84	-13.00	41.84
3393.200	H	45.62	-68.28	10.36	1.19	-59.11	-13.00	46.11
3393.200	V	45.21	-68.65	10.36	1.19	-59.48	-13.00	46.48

LTE Band 38(1-26.5GHz):

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 RB1#0, Frequency: 2572.5 MHz								
5145.000	H	63.09	-47.86	11.29	1.44	-38.01	-25.00	13.01
5145.000	V	48.65	-62.18	11.29	1.44	-52.33	-25.00	27.33
7717.500	H	50.16	-55.94	10.86	1.99	-47.07	-25.00	22.07
7717.500	V	46.97	-59.76	10.86	1.99	-50.89	-25.00	25.89
5MHz QPSK RB1#0, Frequency: 2595 MHz								
5190.000	H	54.33	-57.03	11.31	1.44	-47.16	-25.00	22.16
5190.000	V	49.91	-61.31	11.31	1.44	-51.44	-25.00	26.44
7785.000	H	46.15	-59.89	10.84	1.99	-51.04	-25.00	26.04
7785.000	V	46.12	-60.36	10.84	1.99	-51.51	-25.00	26.51
5MHz QPSK RB1#0, Frequency: 2617.5 MHz								
5235.000	H	57.68	-53.59	11.34	1.46	-43.71	-25.00	18.71
5235.000	V	46.40	-64.68	11.34	1.46	-54.80	-25.00	29.80
7852.500	H	45.73	-60.08	10.83	2.03	-51.28	-25.00	26.28
7852.500	V	46.44	-59.76	10.83	2.03	-50.96	-25.00	25.96

LTE Band 41(1-27GHz):

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 RB1#0, Frequency: 2537.5 MHz								
5075.000	H	52.63	-57.85	11.25	1.48	-48.08	-25.00	23.08
5075.000	V	49.21	-61.17	11.25	1.48	-51.40	-25.00	26.40
7612.500	H	46.57	-59.55	10.88	2.02	-50.69	-25.00	25.69
7612.500	V	46.09	-60.74	10.88	2.02	-51.88	-25.00	26.88
5MHz QPSK RB1#0, Frequency: 2595 MHz								
5190.000	H	54.21	-57.15	11.31	1.44	-47.28	-25.00	22.28
5190.000	V	49.36	-61.86	11.31	1.44	-51.99	-25.00	26.99
7785.000	H	46.72	-59.32	10.84	1.99	-50.47	-25.00	25.47
7785.000	V	46.26	-60.22	10.84	1.99	-51.37	-25.00	26.37
5MHz QPSK RB1#0, Frequency: 2652.5 MHz								
5305.000	H	53.74	-57.19	11.38	1.46	-47.27	-25.00	22.27
5305.000	V	49.63	-61.05	11.38	1.46	-51.13	-25.00	26.13
7957.500	H	46.87	-58.26	10.81	2.09	-49.54	-25.00	24.54
7957.500	V	46.54	-59.04	10.81	2.09	-50.32	-25.00	25.32

LTE Band 66(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)			
1.4MHz QPSK RB1#0, Frequency: 1710.7 MHz								
3421.400	H	47.78	-66.26	10.37	1.17	-57.06	-13.00	44.06
3421.400	V	45.62	-68.39	10.37	1.17	-59.19	-13.00	46.19
5132.100	H	56.18	-54.65	11.28	1.47	-44.84	-13.00	31.84
5132.100	V	57.27	-53.45	11.28	1.47	-43.64	-13.00	30.64
1.4MHz QPSK RB1#0, Frequency: 1745 MHz								
3490.000	H	45.95	-68.29	10.40	1.17	-59.06	-13.00	46.06
3490.000	V	43.97	-70.22	10.40	1.17	-60.99	-13.00	47.99
5235.000	H	56.33	-54.94	11.34	1.46	-45.06	-13.00	32.06
5235.000	V	57.16	-53.92	11.34	1.46	-44.04	-13.00	31.04
1.4MHz QPSK RB1#0, Frequency: 1779.3 MHz								
3558.600	H	47.29	-66.84	10.46	1.22	-57.60	-13.00	44.60
3558.600	V	45.84	-68.18	10.46	1.22	-58.94	-13.00	45.94
5337.900	H	55.76	-55.20	11.40	1.47	-45.27	-13.00	32.27
5337.900	V	56.01	-54.81	11.40	1.47	-44.88	-13.00	31.88

Note 1:

The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

4.2 Spot Check With Maximum Conducted Output Power

Serial Number:	357Q-1	Test Date:	2025/8/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	50	ATM Pressure: (kPa)	100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9

** 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:**GSM 850 RF Output Power**

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	31.47	31.59	31.31	23.08	38.45
GPRS 1 Slot	30.97	31.30	30.90	22.79	38.45
GPRS 2 Slots	28.78	29.31	29.33	20.82	38.45
GPRS 3 Slots	27.55	26.69	27.04	19.04	38.45
GPRS 4 Slots	25.10	25.25	25.08	16.74	38.45

Note:

$ERP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBd})$

$G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$

Use Main antenna to calculate maximum ERP.

GSM 1900 RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	27.81	27.69	27.68	25.33	33
GPRS 1 Slot	28.30	28.04	28.07	25.82	33
GPRS 2 Slots	25.23	24.93	25.71	23.23	33
GPRS 3 Slots	23.97	23.21	23.90	21.49	33
GPRS 4 Slots	21.30	21.57	21.69	19.21	33

Note: EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi)
Use Main antenna to calculate maximum EIRP.

WCDMA Band 2 RF Output Power

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	21.35	21.40	22.09	19.61	33
HSDPA Subtest 1	20.57	21.65	21.14	19.17	33
HSDPA Subtest 2	20.85	21.66	21.38	19.18	33
HSDPA Subtest 3	20.92	21.80	20.85	19.32	33
HSDPA Subtest 4	20.90	21.30	21.32	18.84	33
HSUPA Subtest 1	20.81	21.09	20.54	18.61	33
HSUPA Subtest 2	21.30	21.56	21.18	19.08	33
HSUPA Subtest 3	21.09	21.51	20.74	19.03	33
HSUPA Subtest 4	21.05	21.41	21.19	18.93	33
HSUPA Subtest 5	20.96	21.20	21.03	18.72	33

Note: EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi)
Use Main antenna to calculate maximum EIRP.

WCDMA Band 4 RF Output Power

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	21.35	20.93	21.52	20.03	30
HSDPA Subtest 1	20.03	20.18	19.88	18.69	30
HSDPA Subtest 2	20.55	20.64	19.98	19.15	30
HSDPA Subtest 3	20.68	20.78	19.89	19.29	30
HSDPA Subtest 4	20.72	20.37	20.56	19.23	30
HSUPA Subtest 1	20.61	20.27	20.64	19.15	30
HSUPA Subtest 2	20.32	20.40	20.37	18.91	30
HSUPA Subtest 3	20.37	20.15	20.49	19.00	30
HSUPA Subtest 4	20.27	20.67	20.09	19.18	30
HSUPA Subtest 5	20.50	20.30	20.14	19.01	30

Note: EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi)
Use Div antenna to calculate maximum EIRP.

WCDMA Band 5 RF Output Power					
Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	21.82	21.53	21.98	13.47	38.45
HSDPA Subtest 1	21.84	21.48	22.07	13.56	38.45
HSDPA Subtest 2	21.93	22.12	22.00	13.61	38.45
HSDPA Subtest 3	21.43	21.95	21.87	13.44	38.45
HSDPA Subtest 4	21.59	21.65	21.46	13.14	38.45
HSUPA Subtest 1	22.22	21.78	21.42	13.71	38.45
HSUPA Subtest 2	21.82	21.34	21.99	13.48	38.45
HSUPA Subtest 3	21.85	21.40	21.66	13.34	38.45
HSUPA Subtest 4	21.50	21.35	21.13	12.99	38.45
HSUPA Subtest 5	21.46	21.53	21.70	13.19	38.45
Note: $ERP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBd})$ $G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$ Use Main antenna to calculate maximum ERP.					

LTE band data please refer to Annex "2503U31524E-RF-00CA3_Appendix A" for detail test data.

5. EUT PHOTOGRAPHS

Please refer to the attachment 2503U31524E-RFA3-EXP EUT EXTERNAL PHOTOGRAPHS and 2503U31524E-RFA3-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2503U31524E-RF-00CA3-TSP TEST SETUP PHOTOGRAPHS.

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