

TEST REPORT

Applicant: TCL Communication Ltd.

EUT Description: USB Dongle

Model: IK42V1

Brand: TCL

Standards: Article 49-6-9 the relevant articles and MIC Notice No. 338 of the Ordinance Regulating Radio Equipment

Test Method: MIC Notice No.88 Appendix No. 86

Certification Ordinance: Article 2, Paragraph 1, Item 11-19 (HU)

Date of Receipt: 2026/05/29

Date of Test: 2026/05/29 to 2026/06/22

Date of Issue: 2026/06/24

TOWE tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. Without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2026/06/24	Original	Carey Chen

Summary of Test Results

Report Section	Test Requirement	Result
4.1	Frequency Tolerance	Pass
4.2	Occupied Bandwidth	Pass
4.3	RF Output Power and Tolerance of Antenna Power	Pass
4.4	Unwanted Emission Strength in Out-band Area	Pass
4.5	Unwanted Emission Strength in Spurious Area	Pass
4.6	Adjacent Channel Leakage Power	Pass
4.7	Leakage Power at No-carrier Transmission	Pass
4.8	Secondarily Emitted Radio Wave Strength	Pass
4.9	Comprehensive Operation Test	Pass
4.10	Construction Protection Confirmation Method	Pass
Remark: Pass: The EUT complies with the essential requirements in the standard.		

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurement tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China.

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory.

Test Firm Registration Number: 684095

Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.2.2 Manufacturer

Manufacturer:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.3 Product Information

EUT Description:	USB Dongle	
Model No.:	IK42V1	
Brand:	TCL	
Hardware Version:	V01	
Software Version:	IK42_00_02.00_01	
IMEI:	353031590000251	
Technical specification:		
Type Emission:	D1A, D1B, D1C, D1D, D1F, D1X, D7W G1A, G1B, G1C, G1D, G1F, G1X, G7W	
Modulation Type:	☒ QPSK, ☒ 16QAM	
Operation Frequency Range:	LTE Band 1	1920MHz ~ 1980MHz
	LTE Band 3	1710MHz ~ 1785MHz
	LTE Band 8	900MHz ~ 915MHz
	LTE Band 28	715MHz ~ 718MHz 718MHz ~ 748MHz
Antenna Type:	☐ External, ☒ Integrated	
Power Class:	Class 3: All	
Antenna Gain:	Band	Ant (dBi)
	LTE Band 1	0.2
	LTE Band 3	-0.1
	LTE Band 8	-0.9
	LTE Band 28	-1.2
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.		

2 Test Configuration

2.1 Test Channel

Band	Bandwidth	Range	Channel	Frequency(MHz)
LTE Band 1	5MHz	Low	18025	1922.5
		Middle	18300	1950.0
		High	18575	1977.5
	10MHz	Low	18050	1925.0
		Middle	18300	1950.0
		High	18550	1975.0
	15MHz	Low	18075	1927.5
		Middle	18300	1950.0
		High	18525	1972.5
	20MHz	Low	18100	1930.0
		Middle	18300	1950.0
		High	18500	1970.0

Band	Bandwidth	Range	Channel	Frequency (MHz)
LTE Band 3	3MHz	Low	19215	1711.5
		Middle	19575	1747.5
		High	19935	1783.5
	5MHz	Low	19225	1712.5
		Middle	19575	1747.5
		High	19925	1782.5
	10MHz	Low	19250	1715.0
		Middle	19575	1747.5
		High	19900	1780.0
	15MHz	Low	19275	1717.5
		Middle	19575	1747.5
		High	19875	1777.5
	20MHz	Low	19300	1720.0
		Middle	19575	1747.5
		High	19850	1775.0

Band	Bandwidth	Range	Channel	Frequency(MHz)
LTE Band 8	3MHz	Low	21665	901.5
		Middle	21725	907.5
		High	21785	913.5
	5MHz	Low	21675	902.5
		Middle	21725	907.5
		High	21775	912.5
	10MHz	Low	/	/
		Middle	/	/
		High	21750	910.0

Band	Bandwidth	Range	Channel	Frequency(MHz)
LTE Band 28 715MHz-718MHz	3MHz	Low	27345	716.5
		Middle	/	/
		High	/	/

Band	Bandwidth	Range	Channel	Frequency(MHz)
LTE Band 28 718MHz-748MHz	5MHz	Low	27385	720.5
		Middle	27510	733.0
		High	27635	745.5
	10MHz	Low	27410	723.0
		Middle	27510	733.0
		High	27610	743.0
	15MHz	Low	27435	725.5
		Middle	27510	733.0
		High	27585	740.5
	20MHz	Low	27460	728.0
		Middle	27510	733.0
		High	27560	738.0

2.2 Description of test setup

Description	Manufacturer	Model	Serial Number
Multimeter	Proskit	MT-1280	21175671

2.3 Test Environment

Temperature:	Normal: 15°C ~ 35°C		
Humidity:	Normal: 45 ~ 56 % RH		
Atmospheric Pressure:	1010 mbar		
Power Supply:	Nominal: 5.0Vdc Extreme: 4.5Vdc for low voltage, 5.5Vdc for high voltage		
External power supply	IC power supply	Deviation from normal	Deviation
5.0V	3.0V	---	---
4.5V	3.0V	0.00V	0.00%
5.5V	3.0V	0.00V	0.00%
Note: For extreme voltage test, The RF IC power unit is supplied DC 3.0V. The supply voltage of the RF IC fluctuates within 1%, so only the normal voltage was selected to test all items.			

2.4 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

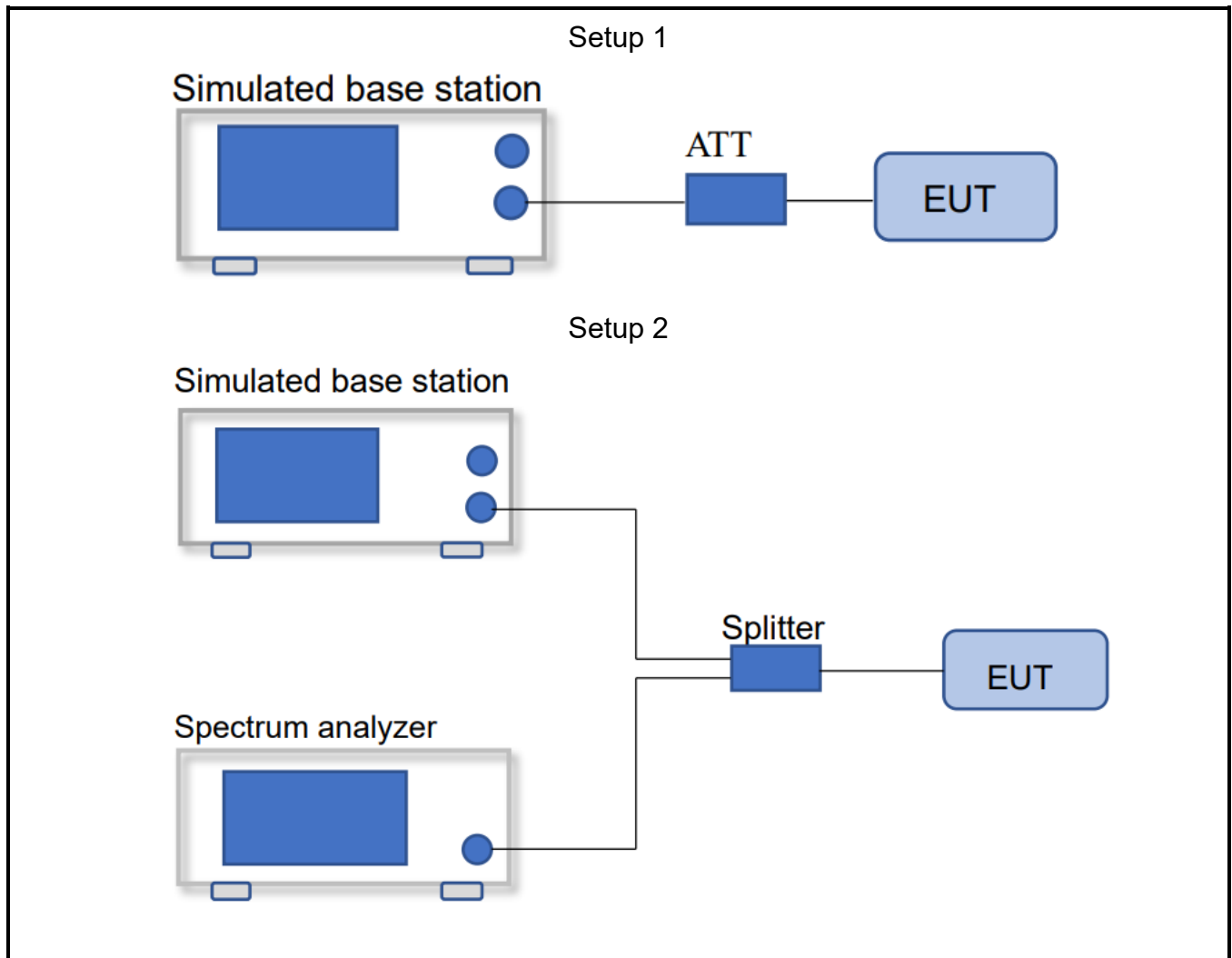
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

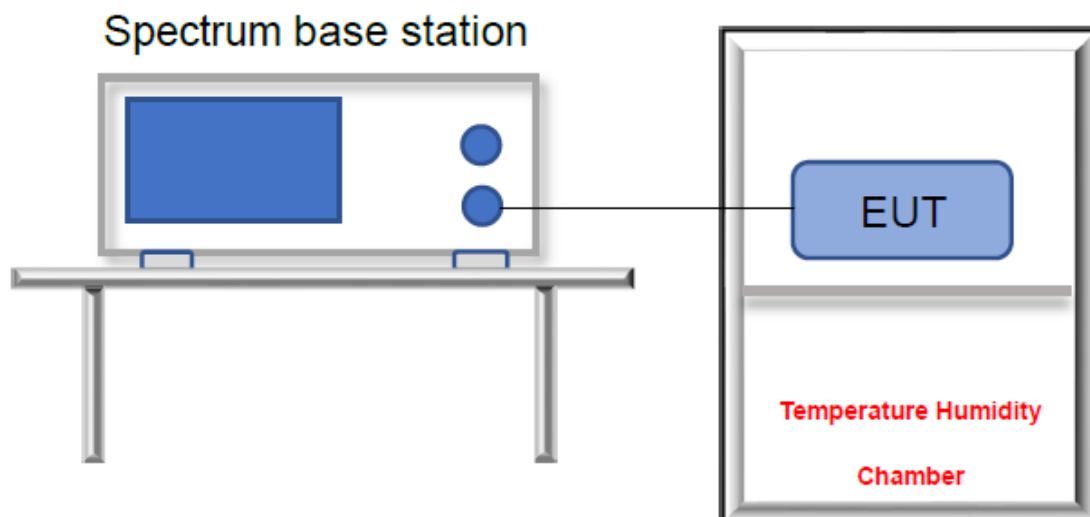
2.5 Modifications

No modifications were made during testing.

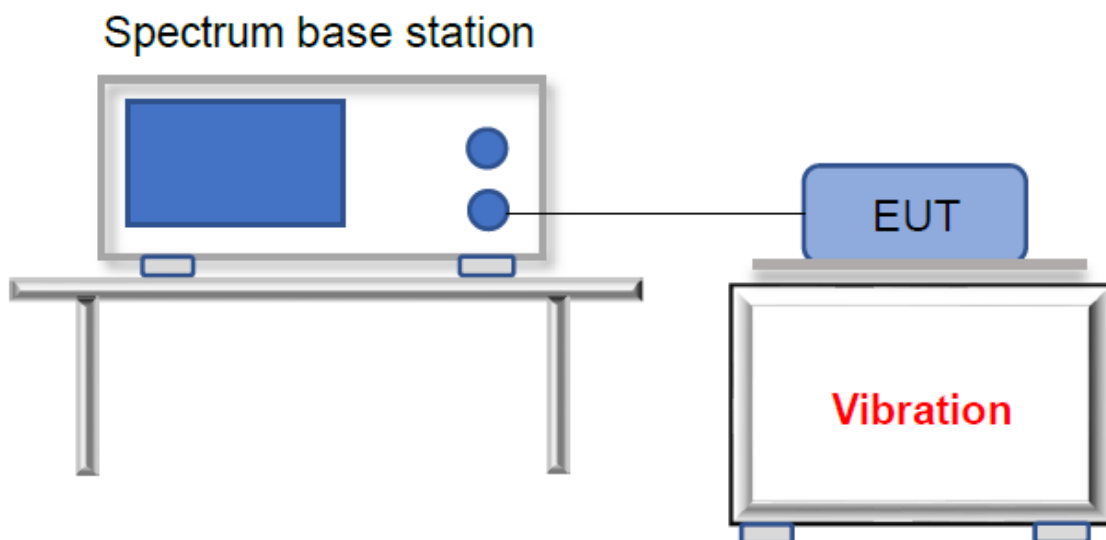
2.6 Test Setup Diagram



Setup 3



Setup 4



3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 Test Equipment List

Description	Manufacturer	Model	Serial No.	Last Cal	Cal Due	Cal Method	Cal Authority
Radio Communication Analyzer	Anritsu	MT8821C	6262170436	2026/03/05	2027/03/04	3	Lisai
Signal Analyzer	Keysight	N9020A	US46220152	2026/03/05	2027/03/04	3	Lisai
Signal Generator	Keysight	N5182A	MY49060761	2026/03/05	2027/03/04	3	Lisai
Signal Generator	R&S	SMR20	101691	2026/03/05	2027/03/04	3	Lisai
Hygrometer	BingYu	HTC-1	N/A	2025/05/29	2027/05/28	3	Lisai
Mini type temperature chamber	ESPEC	GSU-24	0060-001323	2026/05/29	2027/05/28	3	Lisai
Band Reject Filter Group	Tonscend	JS0806-F	23B806F0662	N/A	N/A	N/A	N/A
RF Control Unit	Tonscend	JS0806-1	22L8060650	N/A	N/A	N/A	N/A
Measurement Software	Tonscend	TS1120 V3.1.46	10770	N/A	N/A	N/A	N/A

Remark:

1. Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as *NICT*) or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992)
3. Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
4. Calibration conducted by using other equipment that listed above from 1) to 3).

From JRL Article 24-2, paragraph 4, Item 2

3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency error	50.30Hz
Output power	0.76dB
Adjacent channel power	0.48dB
Conducted spurious emissions	2.22dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Frequency Tolerance

Limit

Frequency Tolerance: $\leq \pm(0.1 \times f_c \times 10^{-6} + 15)$ Hz
(f_c = Centric frequency of measurement channel)

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.5.1.

Test Procedure

Temperature Test:

The EUT be tested in the non-operation state and while in specific condition.
Leave it in the condition for 1 hour.
Measure and record the frequency error.
Repeat the above steps to measure normal, high and low temperature conditions.
High temperature = 55°C
Low temperature = -10°C

Humidity Test:

The EUT be tested in the non-operation state and while in specific condition.
Leave it in the condition for 4 hour and confirm that the EUT back to the normal condition.
Measure and record the frequency error.
High Humidity=95% (Maintain at normal temperature of 35°C)

Vibration Test:

Amplitude of vibrations is 3 mm
from minimum number to 500 vibrations/min
from minimum number to 500 vibrations/min
Up and down, left to right, and back and forth for 15 minutes each
Amplitude of vibrations is 1 mm
from 500 vibrations/min to 1800 vibrations/min
Up and down, left to right, and back and forth for 15 minutes each

Test Setup

Temperature and Humidity Test, Refer to section 2.6 Setup 3
Vibration Test, Refer to section 2.6 Setup 4

Test Note

Test Configuration: All Bandwidth, Full RB, L/M/H channel, QPSK modulation.

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.2 Occupied Bandwidth

Limit

For Bandwidth = 3MHz, $\leq 3\text{MHz}$
For Bandwidth = 5MHz, $\leq 5\text{MHz}$
For Bandwidth = 10MHz, $\leq 10\text{MHz}$
For Bandwidth = 15MHz, $\leq 15\text{MHz}$
For Bandwidth = 20MHz, $\leq 20\text{MHz}$

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.6.1

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station was set to force the EUT to its maximum power setting.
3. Spectrum analyzer setting:
RBW $\approx 1\%\text{OBW}$
VBW = $3 \times \text{RBW}$
Detector = Peak
Trace = Max hold.
Use the 99% OBW function of the instrument and recode the 99%OBW.

Test Setup

Refer to section 2.6 Setup 2

Test Note

Test Configuration: All Bandwidth, Full RB, L/M/H channel, QPSK modulation.

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.3 RF Output Power and Tolerance of Antenna Power

Limit

RF Output Power	Conducted Output Power $\leq 23\text{dBm}$	EIRP $\leq 26\text{dBm}$
Tolerance of Antenna Power	+87% ~ -79%	

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.2.2

Test Procedure

1. The transmitter output was connected to simulated station.
2. The simulated base station was set to force the EUT to its maximum power setting.
3. Calculated the tolerance and EIRP:
4. Transmitter output power was read off in dBm, read values have added cable loss and attenuation.
5. Calculation formula:
Declaration Power = $P_d(\text{mW})$ (declared by manufacturer)
Output Power = $P(\text{dBm}) = P_{\text{Linear}}(\text{mW})$
Tolerance = $(P_{\text{Linear}} - P_d) / P_d \times 100\%$
EIRP = Output Power + Antenna Gain(dBi)

Test Setup

Refer to section 2.6 Setup 1

Test Note

Test Configuration: All Bandwidth, 1 RB/Partial RB, L/M/H channel, QPSK modulation. But the report only reflects the worst results

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.4 Unwanted Emission Strength in Out-band Area

Limit

Bandwidth	Limit
3 MHz	$0\text{M} \leq \Delta f < 1\text{MHz}$: $\leq -11.5\text{dBm}/30\text{kHz}$
	$1\text{M} \leq \Delta f < 5\text{MHz}$: $\leq -8.5\text{dBm}/\text{MHz}$
	$5\text{M} \leq \Delta f < 6\text{MHz}$: $\leq -23.5\text{dBm}/\text{MHz}$
5 MHz	$0\text{M} \leq \Delta f < 1\text{MHz}$: $\leq -13.5\text{dBm}/30\text{kHz}$
	$1\text{M} \leq \Delta f < 5\text{MHz}$: $\leq -8.5\text{dBm}/\text{MHz}$
	$5\text{M} \leq \Delta f < 6\text{MHz}$: $\leq -11.5\text{dBm}/\text{MHz}$
	$6\text{M} \leq \Delta f < 10\text{MHz}$: $\leq -23.5\text{dBm}/\text{MHz}$
10 MHz	$0\text{M} \leq \Delta f < 1\text{MHz}$: $\leq -16.5\text{dBm}/30\text{kHz}$
	$1\text{M} \leq \Delta f < 5\text{MHz}$: $\leq -8.5\text{dBm}/\text{MHz}$
	$5\text{M} \leq \Delta f < 10\text{MHz}$: $\leq -11.5\text{dBm}/\text{MHz}$
	$10\text{M} \leq \Delta f < 15\text{MHz}$: $\leq -23.5\text{dBm}/\text{MHz}$
15 MHz	$0\text{M} \leq \Delta f < 1\text{MHz}$: $\leq -18.5\text{dBm}/30\text{kHz}$
	$1\text{M} \leq \Delta f < 5\text{MHz}$: $\leq -8.5\text{dBm}/\text{MHz}$
	$5\text{M} \leq \Delta f < 15\text{MHz}$: $\leq -11.5\text{dBm}/\text{MHz}$
	$15\text{M} \leq \Delta f < 20\text{MHz}$: $\leq -23.5\text{dBm}/\text{MHz}$
20 MHz	$0\text{M} \leq \Delta f < 1\text{MHz}$: $\leq -19.5\text{dBm}/30\text{kHz}$
	$1\text{M} \leq \Delta f < 5\text{MHz}$: $\leq -8.5\text{dBm}/\text{MHz}$
	$5\text{M} \leq \Delta f < 20\text{MHz}$: $\leq -11.5\text{dBm}/\text{MHz}$
	$20\text{M} \leq \Delta f < 25\text{MHz}$: $\leq -23.5\text{dBm}/\text{MHz}$

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.6.2.1

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station was set to force the EUT to its maximum power setting.
3. Set the SA parameter as limit table.

Test Setup

Refer to section 2.6 Setup 2

Test Note

Test Configuration: All Bandwidth, Partial RB/Full RB, L/M/H channel, All modulation. But the report only reflects the worst results

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

4.5 Unwanted Emission Strength in Spurious Area

Limit

Bands	Limit
General	9k ~ 150kHz ≤ -36dBm/1kHz
	150k ~ 30MHz ≤ -36dBm/10kHz
	30M ~ 1000MHz ≤ -36dBm/100kHz
	470M ~ 710MHz ≤ -36dBm/100kHz
	770M ~ 773MHz ≤ -36dBm/100kHz
	773M ~ 803MHz ≤ -36dBm/100kHz
	860M ~ 890MHz ≤ -50dBm/MHz
	945M ~ 960MHz ≤ -36dBm/100kHz
	1000M ~ 12.75GHz ≤ -30dBm/MHz
	1475.9M ~ 1496.6MHz ≤ -50dBm/1MHz
	1496.6M ~ 1510.9MHz ≤ -50dBm/1MHz
	1805M ~ 1845MHz ≤ -30dBm/MHz
	1845M ~ 1880MHz ≤ -50dBm/MHz
	1906.6M ~ 1910MHz ≤ -30dBm/MHz
	1910M ~ 1915.7MHz ≤ -30dBm/MHz
	2010M ~ 2025MHz ≤ -50dBm/MHz
	2110M ~ 2144.4MHz ≤ -50dBm/MHz
	2144.4M ~ 2170MHz ≤ -50dBm/MHz
	2330M ~ 2370MHz ≤ -50dBm/MHz
	3400M ~ 3419.3MHz ≤ -30dBm/MHz
	3400M ~ 3419.3MHz ≤ -30dBm/MHz
	3419.3M ~ 3500.7MHz ≤ -30dBm/MHz
	3500.7M ~ 3574.7MHz ≤ -30dBm/MHz
	3574.7M ~ 3590.3MHz ≤ -30dBm/MHz
	3590.3M ~ 3600MHz ≤ -30dBm/MHz
	3600M ~ 4100MHz ≤ -30dBm/MHz
	4500M ~ 4900MHz ≤ -30dBm/MHz
700MHz Band (718-748MHz)	470M ~ 710MHz ≤ -26.2dBm/6MHz
	3MHz: ≤ -36dBm/100kHz
	770M ~ 773MHz ≤ -36dBm/100kHz
	773M ~ 803MHz ≤ -50dBm/MHz
	945M ~ 960MHz ≤ -50dBm/MHz
	1475.9M ~ 1496.6MHz (Only for 737.95M ~ 748MHz) ≤ -30dBm/MHz
	2144.4M ~ 2170MHz (Only for 715M ~ 723.33MHz) ≤ -30dBm/MHz
700MHz Band (715-718MHz)	470M ~ 710MHz ≤ -36dBm/100kHz
	770M ~ 773MHz ≤ -32dBm/MHz

	773M ~ 803MHz	≤ -50dBm/MHz
	945M ~ 960MHz	≤ -50dBm/MHz
	1805M ~ 1845MHz	≤ -50dBm/MHz
	2144.4M ~ 2170MHz	
	(Only for 715M ~ 723.33MHz)	≤ -30dBm/MHz
	2330M ~ 2370MHz	≤ -50dBm/MHz
	3400M ~ 3419.3MHz	≤ -50dBm/MHz
	3574.7M ~ 3590.3MHz	≤ -30dBm/MHz
	3590.3M ~ 4100MHz	≤ -50dBm/MHz
	4500M ~ 4900MHz	≤ -50dBm/MHz
900MHz Band	860M ~ 890MHz	≤ -40dBm/MHz 3MHz: ≤ -36dBm/100kHz
	945M ~ 960MHz	≤ -50dBm/MHz
1.8GHz Band	773M ~ 803MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	945M ~ 960MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	1805M ~ 1845MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	3400M ~ 3419.3MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	3500.7M ~ 3574.7MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	3574.7M ~ 3590.3MHz (1710M ~1750MHz)	≤ -50dBm/MHz
2000MHz Band	3590.3M ~ 3600MHz (1710M ~1750MHz)	≤ -50dBm/MHz
	1906.6M ~ 1910MHz	≤ -25dBm/MHz 5MHz: ≤ -30dBm/MHz
	1910M ~ 1915.7MHz	≤ -25dBm/MHz

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.6.3

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station was set to force the EUT to its maximum power setting.
3. Spectrum analyzer setting:
RBW Reference limit
VBW = 3*RBW; Sweep = Auto; Detector = RMS, Trace = average.

Test Setup

Refer to section 2.6 Setup 2

Test Note

Test Configuration: All Bandwidth, 1 RB/Full RB, L/M/H channel, QPSK modulation. But the report only reflects the worst results

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

4.6 Adjacent Channel Leakage Power

Limit

Bandwidth	Limit	
3 MHz	± 3MHz	≤ -50dBm/2.7MHz or ≤ -29.2dBc/2.7MHz
	± 4MHz	≤ -50dBm/3.84MHz or ≤ -32.2dBc/3.84MHz
5 MHz	± 5MHz	≤ -50dBm/3.84MHz or ≤ -32.2dBc/3.84MHz ≤ -50dBm/4.5MHz or ≤ -29.2dBc/4.5MHz
	± 10MHz	≤ -50dBm/3.84MHz or ≤ -35.2dBc/3.84MHz
10 MHz	± 7.5MHz	≤ -50dBm/3.84MHz or ≤ -32.2dBc/3.84MHz
	± 10MHz	≤ -50dBm/9MHz or ≤ -29.2dBc/9MHz
	± 12.5MHz	≤ -50dBm/3.84MHz or ≤ -35.2dBc/3.84MHz
15 MHz	± 10MHz	≤ -50dBm/3.84MHz or ≤ -32.2dBc/3.84MHz
	± 15MHz	≤ -50dBm/3.84MHz or ≤ -35.2dBc/3.84MHz ≤ -50dBm/13.5MHz or ≤ -29.2dBc/13.5MHz
20 MHz	± 12.5MHz	≤ -50dBm/3.84MHz or ≤ -32.2dBc/3.84MHz
	± 17.5MHz	≤ -50dBm/3.84MHz or ≤ -35.2dBc/3.84MHz
	± 20MHz	≤ -50dBm/18MHz or ≤ -29.2dBc/18MHz

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.6.2.3

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station was set to force the EUT to its maximum power setting.
3. Spectrum analyzer setting:
Use the ACLR function of the Spectrum.
RBW=30kHz
VBW=100kHz
Detector=RMS
Trace = trace average.
Allow trace to fully stabilize.

Test Setup

Refer to section 2.6 Setup 2

Test Note

Test Configuration: All Bandwidth, Partial RB/Full RB, L/M/H channel, All modulation. But the report only reflects the worst results

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

4.7 Leakage Power at No-carrier Transmission

Limit

Bandwidth	Limit
3 MHz	$\leq -48.5\text{dBm}/2.7\text{MHz}$
5 MHz	$\leq -48.5\text{dBm}/4.5\text{MHz}$
10 MHz	$\leq -48.5\text{dBm}/9\text{MHz}$
15 MHz	$\leq -48.5\text{dBm}/13.5\text{MHz}$
20 MHz	$\leq -48.5\text{dBm}/18\text{MHz}$

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 6.3.3.

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station sets EUT to stop transmission, and continuous receiving.
3. Spectrum analyzer setting:
Use the ACLR function of the Spectrum.
RBW=1MHz ; VBW=1MHz ; Detector=RMS; Trace = trace average
Allow trace to fully stabilize.
Correction factor = $10\lg(BW_{\text{Reference}}/BW_{\text{Measured}})$
Final result = reading level showed in test plots + correction factor

Test Setup

Refer to section 2.6 Setup 2.

Test Note

Test Configuration: All Bandwidth, 1 RB, L/M/H channel, QPSK modulation.

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.8 Secondly Emitted Radio Wave Strength

Limit

Limit	
30MHz ~ 1000MHz	$\leq -57\text{dBm}/100\text{kHz}$
1000MHz ~ 12.75GHz	$\leq -47\text{dBm}/1\text{MHz}$

Measurement methods

MIC Notice No. 88 Appendix No. 86.
3GPP TS 36.521-1 section 7.9.

Test Procedure

1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
2. The simulated base station sets EUT to stop transmission, and continuous receiving.
3. Spectrum analyzer setting:
RBW Reference limit
VBW = 3*RBW
Sweep = Auto
Detector = RMS
Trace = Average

Test Setup

Refer to section 2.6 Setup 2.

Test Note

Test Configuration: All Bandwidth, 1 RB, L/M/H channel, QPSK modulation.

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.9 Comprehensive Operation Test

Limit

Automatic identification function:

The transmitter of each land mobile station communicating with a base station shall be identified automatically by a base station.

Automatic channel switching function:

It is preformed that has automatically channel switching communicating channel from base station to other base station.

Traffic control function:

The area in accordance is provided for the service of base station. The area resulting electric field strength required to provide for the service. It can be subdivided to match the traffic of the area.

Automatic power control function:

Based on the control information from the base station or the measurement of the received power of the radio wave from the base station, it has a function for automatically controlling that antenna power is the minimum.

Measurement methods

MIC Notice No. 88 Appendix No. 86.

Test Procedure

1. The EUT was connected to simulated station.
2. Connect the SS to the UE antenna connector.
3. A call is set up according to the Generic call setup procedure.
4. Confirm the Automatic power control.
5. Disconnected the SS, Read the IMEI code in EUT Settings > About the phone.

Test Setup

Refer to section 2.6 Setup 1.

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.10 Construction Protection Confirmation Method

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with anon-transparent laminating agent.
☐	Other:

Appendix

Appendix list:

Appendix B - LTE Band 1
Appendix B - LTE Band 3
Appendix B - LTE Band 8
Appendix B - LTE Band 28

~The End~