

RF TEST REPORT

Applicant Sichuan Xiangcheng Intelligent
Technology Co., Ltd

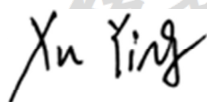
Product PalmDa POS P10

Model P10-TS

Report No. EFTA26030320-IE-09-R2V1

Issue Date June 30, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **Article 2 Paragraph 1 of Item 11-19, 11-21, 21-3 and 54**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	June 8, 2026
Rev.1	Updated data.	June 30, 2026
Note: This revised report (Report No.: EFTA26030320-IE-09-R2V1) supersedes and replaces the previously issued report (Report No.: EFTA26030320-IE-09-R2). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Test case		Results
Article 2 Paragraph 1 of Item 11-19 ,11-21, 21-3 and 54	RF Output Power and Output Power Tolerance Measurement	Pass
	Frequency Tolerance	Pass
	Occupied Bandwidth	Pass
	Unwanted Emission Strength/Output Area	Pass
	Unwanted Emission Strength/Spurious Area	Pass
	Adjacent Channel Leakage Power	Pass
	Leakage Power at No-carrier Transmission	Pass
	Secondary Radiated Emission Strength	Pass
	Burst Length	Pass
	Carrier Sensing Function	NA
	Intermodulation Characteristic	Pass
	Interference prevention	Pass
	Construction Protection Confirmation Method	Pass
Date of Testing: March 30, 2026 ~ April 27, 2026 and June 26, 2026		
Date of Sample Received: March 24, 2026		
Note: 1.The carrier sensing function of the EUT Band 39 is supported by the base station. 2.All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.		

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Sichuan Xiangcheng Intelligent Technology Co., Ltd
Applicant address	No. 2, Plant 7, Plant No. 8 and Plant No. 13 on the 3rd and 4th floors of Plant No. 13 in Area A, Intelligent Terminal Demonstration Park, Gangyuan Road West Section, Lingang Economic Development Zone, Yibin City, Sichuan Province
Manufacturer	Sichuan Xiangcheng Intelligent Technology Co., Ltd
Manufacturer address	No. 2, Plant 7, Plant No. 8 and Plant No. 13 on the 3rd and 4th floors of Plant No. 13 in Area A, Intelligent Terminal Demonstration Park, Gangyuan Road West Section, Lingang Economic Development Zone, Yibin City, Sichuan Province

2.2. General Information

EUT Description				
Model	P10-TS			
IMEI	860659080001268			
Hardware Version	V1.0C			
Software Version	P10_1.0.5_20260304			
Antenna Type	PIFA Antenna			
Support Band (s)	LTE Band 1/3/5/8/18/19/26/28/34/39/40/41			
Test Modulation	QPSK, 16QAM, 64QAM			
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)	Antenna Gain (dBi)
	LTE Band 1	1920 ~ 1980	2110 ~ 2170	1.50
	LTE Band 3	1710 ~ 1785	1805 ~ 1880	1.23
	LTE Band 5	824 ~ 845	869 ~ 890	-1.35
	LTE Band 8	900 ~ 915	945 ~ 960	-1.26
	LTE Band 18	815 ~ 830	860 ~ 875	-1.35
	LTE Band 19	830 ~ 845	875 ~ 890	-1.35
	LTE Band 26	815 ~ 845	860 ~ 890	-1.35
	LTE Band 28	715 ~ 748	770 ~ 803	-2.17
	LTE Band 34	2010 ~ 2025	2010 ~ 2025	-0.07
	LTE Band 39	1888.5~1916.6	1888.5~1916.6	2.03
	LTE Band 40	2330 ~ 2370	2330 ~ 2370	1.13
	LTE Band 41	2545 ~ 2650	2545 ~ 2650	2.65
Frequency range & number of channels	LTE Band 1	5M	1924.2 – 1977.5 MHz, 100kHz interval 534 wave	
		10M	1930.7-1975.0 MHz, 100kHz interval 444 wave	
		15M	1938.2-1972.5 MHz, 100kHz interval 344 waves	
		20M	1945.7-1970.0 MHz, 100kHz interval 244 waves	
	LTE Band 3	3M	1711.5-1783.5MHz, 100kHz interval 721 wave	

複製禁止		5M	1712.5-1782.5MHz,100kHz interval 701 wave
		10M	1715-1780MHz,100kHz interval 651 wave
		15M	1717.5-1777.5MHz,100kHz interval 601 wave
		20M	1720-1775MHz,100kHz interval 551 wave
	LTE Band 5	3M	825.5-843.5MHz,100kHz interval 181 wave
		5M	826.5-842.5MHz,100kHz interval 161 wave
		10M	829-840MHz,100kHz interval 111wave
	LTE Band 8	3M	901.5-913.5MHz,100kHz interval 121 wave
		5M	902.5-912.5MHz,100kHz interval 101 wave
		10M	905-910MHz,100kHz interval 51 wave
	LTE Band 18	5M	817.5-827.5MHz,100kHz interval 101 wave
		10M	820-825MHz,100kHz interval 51 wave
		15M	822.5MHz,100kHz interval 1wave
	LTE Band 19	5M	832.5-842.5MHz,100kHz interval 101 wave
		10M	835-840MHz,100kHz interval 51wave
		15M	837.5MHz,100kHz interval 1wave
	LTE Band 26	3M	816.5-843.5MHz,100kHz interval 271 wave
		5M	817.5-842.5MHz,100kHz interval 251 wave
		10M	820-840MHz,100kHz interval 201wave
		15M	822.5-837.5MHz,100kHz interval 151wave
	LTE Band 28	3M	716.5-746.5MHz,100kHz interval 301 wave
		5M	720.5-745.5MHz,100kHz interval 251 wave
		10M	723-743MHz,100kHz interval 201 wave
		15M	725.5-740.5MHz,100kHz interval 151 wave
		20M	728-738MHz,100kHz interval 101 wave
	LTE Band 34	5M	2012.5-2022.5MHz,100kHz interval 101 wave
		10M	2015-2020MHz,100kHz interval 51 wave
		15M	2017.5MHz,100kHz interval 1 wave
	LTE Band 39	5M	1891/1899.1/1909.1/1914.1MHz,100kHz interval 4 wave
		10M	1911.6MHz,100kHz interval 1 wave
	LTE Band 40	5M	2332.5-2367.5MHz,100kHz interval 351 wave
		10M	2335-2365MHz,100kHz interval 301 wave
		15M	2337.5-2362.5MHz,100kHz interval 251 wave
		20M	2340-2360MHz,100kHz interval 201 wave
	LTE Band 41	5M	2547.5-2647.5MHz,100kHz interval 1001 wave
		10M	2550-2645MHz,100kHz interval 951 wave
		20M	2555-2640MHz,100kHz interval 851 wave
Rated Output Power	LTE Band 1/3/5/8/18/19/26/28/34/40/41		23 dBm
	Band 39		20 dBm
EUT Accessory			
Adapter	Manufacturer: Shenzhen Flypower Technology Co., Ltd.		

	Model: PS10UA050K2000EU Input: 100-240V~50/60Hz 0.35A Output: 5.0V--- 2.0A 10.0W
Battery	Manufacturer: Guangdong Fenghua New Energy Co., Ltd. Shenzhen Branch Model: F50118MA DC 3.7V, 3000mAh, 23.10Wh
USB Cable	Manufacturer: Hunan Anshuo Electronics Co., LTD Model: FKY-26-110
PalmDa POS P10 Dock	Model: P10-TS Dock Input: 5V--- 2A Output: 5V--- 2A
Note: 1. The information of the EUT is declared by the manufacturer. 2. Antenna Gain less-than 3.0 dBi for Band 1/3/5/8/18/19/26/28/40/, 0 dBi for Band 34 and 4 dBi for Band 39/41 3. However, if EIRP is (Antenna Gain + Maximum antenna power) or less, the shortage can be compensated by the antenna gain. 4. The preliminary test was performed in all modes with. Test report only shows worst mode.	

Environment of test site			
Temperature:	25°C		
Huidity:	40%RH		
Atmospheric Pressure:	1017hpa		
Test Voltage:	Normal Voltage: 7.7Vdc Extreme Voltage: 7Vdc/8.8Vdc		
Note: For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results. only the normal voltage was selected to perform all items. The details information as below:			
External Power Supply(V)	IC power supply(V)	External Power Supply(V)	IC power supply(V)
7.7Vdc	3.911V	--	--
7Vdc	3.911V	0V	0%
8.8Vdc	3.911V	0V	0%

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards

Article 2 Paragraph 1 of Item 11-19

Article 2 Paragraph 1 of Item 11-21

Article 2 Paragraph 1 of Item 21-3

Article 2 Paragraph 1 of Item 54

MIC Notice No. Annex 86 of No. 88

MIC Notice No. Annex 75 of No. 88

MIC Notice No. Annex 82 of No. 88

Temporary test method

TDSC-FDMA 携帶無線通信陸上移動局(TELEC)

Test Method

3GPP TS 36.521-1

4. The Case Results

Test Information

Normal Condition:	
Ambient Temperature	19~25°C
Voltage	3.87 V
Relative Humidity	45~85%
Extreme Conditions:	
Temperature	High: 60°C
	Low: 0°C
NTC	Normal test condition
HT	High Temperature
LT	Low Temperature
HRH	High Relative humidity
VTC	Vibration test condition
Pass	Amount of test cases which are conformant to the applied standards in the given LTE frequency band
Fail	Amount of test cases which are not conformant to the applied standards in the given LTE frequency band

Test case	Condition	LTE Band 1	LTE Band 3	LTE Band 5	LTE Band 8	LTE Band 18	LTE Band 19	LTE Band 26	LTE Band 28	LTE Band 34	LTE Band 39	LTE Band 40	LTE Band 41
		Results											
RF Output Power and Output Power Tolerance Measurement	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Frequency Tolerance	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Humidity	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	LT	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	HT	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Occupied Bandwidth	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Unwanted Emission Strength/Output Area	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Unwanted Emission Strength/Spurious Emission	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Adjacent Channel Leakage Power	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	/	Pass	Pass
Leakage Power at No-carrier Transmission	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Secondarily Emitted Radio Wave Strength	NTC	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Burst Length	NTC	/	/	/	/	/	/	/	/	/	/	/	Pass
Carrier Sensing Function	NTC	/	/	/	/	/	/	/	/	/	/	/	/
Intermodulation Characteristic	NTC	/	/	/	/	/	/	/	/	Pass	/	Pass	/

4.1. Condition for Frequency Stabilization

Method of Measurement

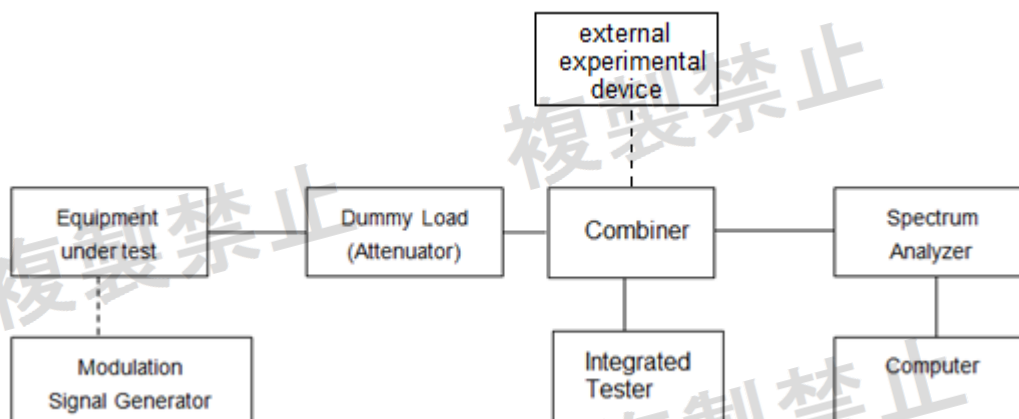
Environment	The oscillation circuit of a transmitter shall be based on an oscillation method that is as resistant to influence by changes in the ambient temperature or humidity as possible in order to maintain its oscillation frequency within the tolerance.
Vibration	The transmitter of a mobile station (including a mobile amateur radio station) shall be able to maintain its frequency within the tolerance against any vibration or shock that can practically occur.

Test Results

Condition for Frequency Stabilization	Test Case	Result
	Voltage fluctuation	PASS
	Environment	PASS
	Vibration	PASS

4.2. Frequency Tolerance

Test Setup

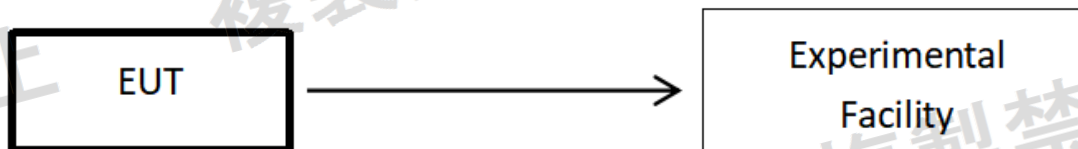


Delivery humidity test Setup



Temperature Chamber

Vibration test Setup



Method of Measurement

DUT status: DUT signal input test equipment

Set the test frequency and set DUT to continuous emission state

Testing in normal and extend environment include Humidity, Vibration, Low temperature and High temperature.

(1) Temperature test

Place the DUT in temperature chamber and adjust the test temperature

Leave in this state for 1 hour.

Start the test equipment and use the test equipment to determine the frequency of the test machine

(2) Delivery humidity test

The test equipment is placed in the temperature and humidity test chamber in a non-operating state, and the temperature inside the temperature and humidity test chamber in this state

Set relative humidity or the maximum humidity specified by the test equipment. Leave in this state for

4 hours.

After the time, the temperature and humidity test chamber is set back to normal room temperature and normal humidity to ensure that there is no condensation

(3) Vibration test:

A total amplitude of 3 millimeters, the minimum frequency (the frequency at which the vibration test machine can be set at a frequency of less than 300 vibrations per minute) Up to 500 vibrations per minute, up and down, left and right, and back and forth, 15.minute.

The total amplitude is 1mm, vibrating from 500 to 1,800 vibrations per minute for 15 minutes up and down, left and right, and front and back.

The frequency sweep period is 10 minutes, and the frequency sweep is 500 vibrations per minute, 1,800 vibrations per minute, and 500 vibrations per minute

Limits

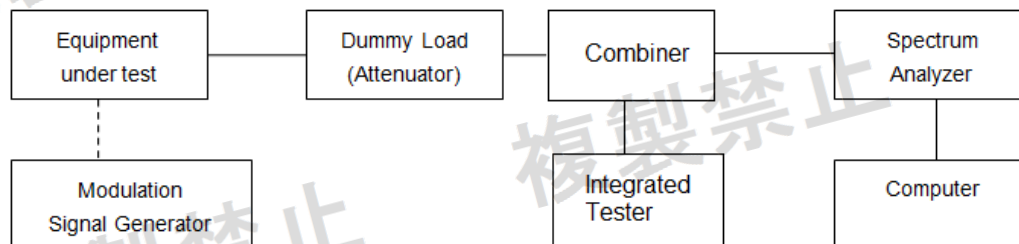
Item	Limits
Frequency Tolerance	FD-LTE/ TD-LTE $\leq \pm(0.1 \times f \times 10^{-6} + 15)\text{Hz}$
	TD-LTE (2545-2655MHz) $\leq 3 \times 10^{-6}\text{Hz}$
	TD-LTE(1888.5~1916.6):0.25ppm ($2.5 \times 10^{-5}\text{Hz}$)

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.3. Occupied Bandwidth

Test Setup



Test Procedures

Spectrum Analyzer Setting

SPAN: $2 \sim 3.5 \times BW$ MHz

RBW: $1\% \times BW$

VBW: $3 \times RBW$

Indication mode: Max hold

Detection Mode: Positive Peak

Sweep Time: Auto

and use the 99% OBW function

Limits

FD-LTE

Item	Limits
Occupied Bandwidth	$\leq 3\text{MHz}$ (for Bandwidth=3MHz)FD-LTE $\leq 5\text{MHz}$ (for Bandwidth=5MHz) $\leq 10\text{MHz}$ (for Bandwidth=10MHz) $\leq 15\text{MHz}$ (for Bandwidth=15MHz) $\leq 20\text{MHz}$ (for Bandwidth=20MHz)

TD-LTE:

*Appendix 1 (Occupied Bandwidth)

Transmission System		2GHz Band	2.3GHz Band or 3.5GHz Band
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	5MHz System	5MHz	5MHz
	10MHz System	10MHz	10MHz
	15MHz System	15MHz	15MHz
	20MHz System	—	20MHz
Simultaneous transmission by the continuous "two" carrier	5MHz + 5MHz System	—	9.8MHz
	5MHz + 10MHz System	—	14.95MHz
	5MHz + 15MHz System	—	19.8MHz
	5MHz + 20MHz System	—	24.95MHz
	10MHz + 10MHz System	—	19.9MHz
	10MHz + 15MHz System	—	24.75MHz
	10MHz + 20MHz System	—	29.9MHz
	15MHz + 15MHz System	—	30MHz
	15MHz + 20MHz System	—	34.85MHz
	20MHz + 20MHz System	—	39.8MHz
	15MHz + 15MHz + 15MHz System	—	45MHz
	10MHz + 20MHz + 20MHz System	—	49.7MHz
	15MHz + 15MHz + 20MHz System	—	49.85MHz
	15MHz + 20MHz + 20MHz System	—	54.65MHz
	20MHz + 20MHz + 20MHz System	—	59.6MHz

TD-LTE (2545-2655MHz):

*Appendix 2 (Occupied Bandwidth)

Transmission System		Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	2.5MHz	2.5MHz
	5MHz	5MHz
	10MHz	10MHz
	20MHz	20MHz
Simultaneous transmission by the continuous "two" carrier	5MHz & 5MHz	9.8MHz
	5MHz & 10MHz	14.95MHz
	10MHz & 10MHz	19.9MHz
	5MHz & 20MHz	24.95MHz
	10MHz & 20MHz	29.9MHz
	20MHz & 20MHz	39.8MHz

TD-LTE (1888.5~1916.6MHz)

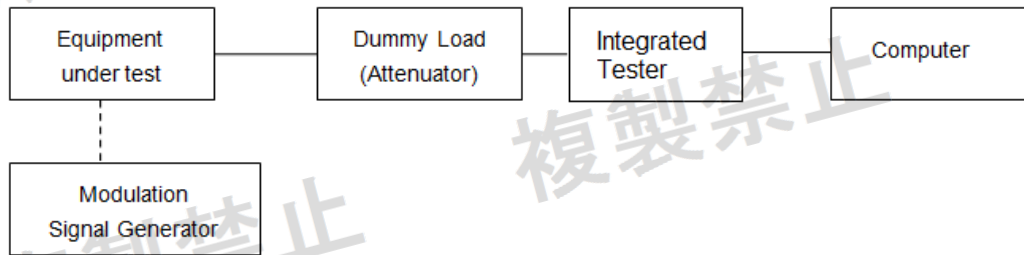
1897.4, 1899.2, 1901.0MHz : 1.4MHz
1891.0, 1899.1, 1909.1, 1914.1MHz : 5MHz
1911.6MHz : 10MHz

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.4. RF Output Power and Output Power Tolerance

Test Setup



Test procedure: Set and send continuously up power control to the DUT, output power shall be maximum level.

- (1) set the test frequency and send.
- (2) Set and send continuously up power with maximum

Test Procedures

General EUT connected to the to Integrated Test and measure the average power of spurious emission. Recorded the output power and comparison with nominal power

Declaration Power = $P_d(\text{mW})$

Output Power= $P(\text{dBm})=P_m(\text{mW})$

Tolerance = $(P_m - P_d) / P_d \times 100\%$

Limits

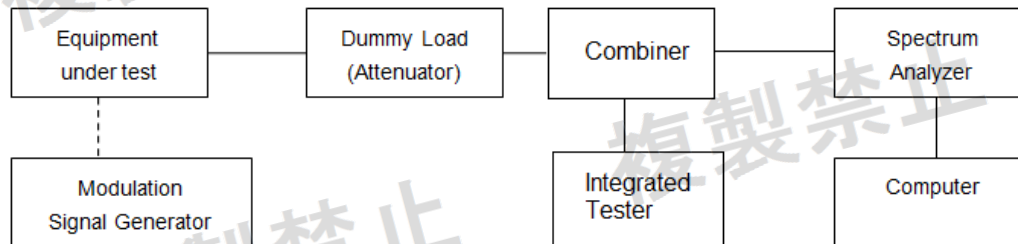
Item	Limits
Output Power Tolerance	+87% ~ -79% TD-LTE(2330-2370MHz; 3400-3600 MHz): +100% ~ -79% TD-LTE (1888.5~1916.6MHz):+87%~-79%
Antenna Power	200mW(23dBm) TD-LTE (2545-2655MHz): 800mW(29dBm) TD-LTE (1888.5~1916.6MHz):100mW(20dBm)

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.5. Unwanted Emission Strength/Outband Area

Test Setup



Test Procedures

Set and send continuously up power control to the DUT, output power shall be maximum level, Set the Integrated Tester parameter as limit table,

- (1) Excluding the setting of the spectrum analyzer, the analysis will be conducted under the same conditions as the occupied frequency band.
- (2) Spectral analyzer Settings when searching for spurious launches should be the same as measuring unwanted launches in the spurious region.
- (3) Span: 0Hz
RBW: From 10Hz to about 1 KHZ (when the frequency range of the outside band region exceeds 10 MHz, 1 KHZ or more can be used.)
Sweep mode :single sweep
Detection mode :sample

Limits

Transmission System		Technical Requirement
FD-LTE	3MHz	CF $\pm$ (1.5 - 2.5) MHz : -11.5dBm /30kHz
		CF $\pm$ (2.5 - 6.5) MHz : -8.5dBm/MHz
		CF $\pm$ (6.5 - 7.5) MHz : -23.5dBm/MHz
	5MHz	CF $\pm$ (2.5 - 3.5) MHz : -13.5dBm /30kHz
		CF $\pm$ (3.5 - 7.5) MHz : -8.5dBm/MHz
		CF $\pm$ (7.5 - 8.5) MHz : -11.5dBm/MHz
		CF $\pm$ (8.5 - 12.5) MHz : -23.5dBm/MHz
	10MHz	CF $\pm$ (5 - 6) MHz : -16.5dBm /30kHz
		CF $\pm$ (6 - 10) MHz : -8.5dBm/MHz
		CF $\pm$ (10 - 15) MHz : -11.5dBm/MHz
		CF $\pm$ (15 - 20) MHz : -23.5dBm/MHz
	15MHz	CF $\pm$ (7.5 - 8.5) MHz : -18.5dBm /30kHz
		CF $\pm$ (8.5 - 12.5) MHz : -8.5dBm/MHz
		CF $\pm$ (12.5 - 22.5) MHz : -11.5dBm/MHz
		CF $\pm$ (22.5 - 27.5) MHz : -23.5dBm/MHz
	20MHz	CF $\pm$ (10 - 11) MHz : -19.5dBm /30kHz

		CF $\pm$ (11 - 15) MHz : -8.5dBm/MHz
		CF $\pm$ (15 - 30) MHz : -11.5dBm/MHz
		CF $\pm$ (30 - 35) MHz : -23.5dBm/MHz

TD-LTE (2545-2655MHz):

*Appendix 3 (Unwanted Emission Strength / Outband Area)

Transmission System		Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	2.5MHz	*Cf $\pm$ (3.75 - 6.25) MHz : -10dBm/MHz
	5MHz	*Cf $\pm$ (7.5 - 12.5) MHz : -10dBm/MHz
	10MHz	*Cf $\pm$ (15 - 20) MHz : -25dBm/MHz
		*Cf $\pm$ (20 - 25) MHz : -30dBm/MHz
	20MHz	*Cf $\pm$ (30 - 35) MHz : -25dBm/MHz
		*Cf $\pm$ (35 - 50) MHz : -30dBm/MHz
Simultaneous transmission by the continuous "two" carrier	5MHz & 5MHz	*Cf $\pm$ (9.9 - 14.7) MHz : -13dBm/MHz
		*Cf $\pm$ (14.7 - 19.7) MHz : -25dBm/MHz
	5MHz & 10MHz	*Cf $\pm$ (12.475 - 22.425) MHz : -13dBm/MHz
		*Cf $\pm$ (22.425 - 27.425) MHz : -25dBm/MHz
	10MHz & 10MHz	*Cf $\pm$ (14.95 - 29.85) MHz : -13dBm/MHz
		*Cf $\pm$ (29.85 - 34.85) MHz : -25dBm/MHz
	5MHz & 20MHz	*Cf $\pm$ (17.475 - 37.425) MHz : -13dBm/MHz
		*Cf $\pm$ (37.425 - 42.425) MHz : -25dBm/MHz
	10MHz & 20MHz	*Cf $\pm$ (19.95 - 44.85) MHz : -13dBm/MHz
		*Cf $\pm$ (44.85 - 49.85) MHz : -25dBm/MHz
	20MHz & 20MHz	*Cf $\pm$ (24.9 - 59.7) MHz : -13dBm/MHz
		*Cf $\pm$ (59.7 - 64.7) MHz : -25dBm/MHz

TD-LTE:

*Appendix 2 (Unwanted Emission Strength / Outband Area)

*2GHz Band (2,010 ~ 2,025 MHz)

5MHz System	10MHz System	15MHz System
Detuning Frequency Under 1MHz: *Cf ± (2.5 - 3.5) MHz: -13.5dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (5 - 6) MHz: -16.5dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (7.5 - 8.5) MHz: -18.5dBm/30kHz
Detuning Frequency 1 - 5 MHz: *Cf ± (3.5 - 7.5) MHz: -8.5dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (6 - 10) MHz: -8.5dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (8.5 - 12.5) MHz: -8.5dBm/MHz
Detuning Frequency 5 - 6 MHz: *Cf ± (7.5 - 9.5) MHz: -11.5dBm/MHz	Detuning Frequency 5 - 10 MHz: *Cf ± (10 - 15) MHz: -11.5dBm/MHz	Detuning Frequency 5 - 15 MHz: *Cf ± (12.5 - 22.5) MHz: -11.5dBm/MHz
Detuning Frequency 6 - 10 MHz: *Cf ± (8.5 - 12.5) MHz: -23.5dBm/MHz	Detuning Frequency 10 - 15 MHz: *Cf ± (15 - 20) MHz: -23.5dBm/MHz	Detuning Frequency 15 - 20 MHz: *Cf ± (22.5 - 27.5) MHz: -23.5dBm/MHz

Detuning Frequency: Frequency of the difference from the "end of a transmit frequency range" (Limited to the near end of measurement of the unwanted emission strength) to the "end of the measurement range of the unwanted emission strength" (Limited to the near end of a transmit frequency range).

*An actual measurement range

*2.3GHz band (2,330 ~ 2,370 MHz) or 3.5GHz Band (3,400 ~ 3,600 MHz)

5MHz System	10MHz System	15MHz System	20MHz System
Detuning Frequency Under 1MHz: *Cf ± (2.5 - 3.5) MHz: -13.2dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (5 - 6) MHz: -16.2dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (7.5 - 8.5) MHz: -18.2dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (10 - 11) MHz: -19.2dBm/30kHz
Detuning Frequency 1 - 5 MHz: *Cf ± (3.5 - 7.5) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (6 - 10) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (8.5 - 12.5) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (11 - 15) MHz: -8.2dBm/MHz
Detuning Frequency 5 - 6 MHz: *Cf ± (7.5 - 8.5) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 10 MHz: *Cf ± (10 - 15) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 15 MHz: *Cf ± (12.5 - 22.5) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 20 MHz: *Cf ± (15 - 30) MHz: -11.2dBm/MHz
Detuning Frequency 6 - 10 MHz: *Cf ± (8.5 - 12.5) MHz: -23.2dBm/MHz	Detuning Frequency 10 - 15 MHz: *Cf ± (15 - 20) MHz: -23.2dBm/MHz	Detuning Frequency 15 - 20 MHz: *Cf ± (22.5 - 27.5) MHz: -23.2dBm/MHz	Detuning Frequency 20 - 25 MHz: *Cf ± (30 - 35) MHz: -23.2dBm/MHz

5MHz + 5MHz System	5MHz + 10MHz System	5MHz + 15MHz System	5MHz + 20MHz System	10MHz + 10MHz System
Detuning Frequency Under 1MHz: *Cf ± (4.0 - 5.0) MHz: -16.1dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (7.475 - 8.475) MHz: -18.1dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (9.9 - 10.9) MHz: -19.1dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (12.475 - 13.475) MHz: -20.2dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (9.95 - 10.95) MHz: -19.1dBm/30kHz
Detuning Frequency 1 - 5 MHz: *Cf ± (5.9 - 9.9) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (8.475 - 12.475) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (10.9 - 14.9) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (13.475 - 17.475) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (10.95 - 14.95) MHz: -8.2dBm/MHz
Detuning Frequency 5 - 9.8 MHz: *Cf ± (9.9 - 14.7) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 14.95 MHz: *Cf ± (12.475 - 22.425) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 19.8 MHz: *Cf ± (14.9 - 29.7) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 24.95 MHz: *Cf ± (17.475 - 37.425) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 19.9 MHz: *Cf ± (14.95 - 29.85) MHz: -11.2dBm/MHz
Detuning Frequency 9.8 - 14.8 MHz: *Cf ± (14.7 - 19.7) MHz: -23.2dBm/MHz	Detuning Frequency 14.95 - 19.95 MHz: *Cf ± (22.425 - 27.425) MHz: -23.2dBm/MHz	Detuning Frequency 19.8 - 24.8 MHz: *Cf ± (29.7 - 34.7) MHz: -23.2dBm/MHz	Detuning Frequency 24.95 - 29.95 MHz: *Cf ± (37.425 - 42.425) MHz: -23.2dBm/MHz	Detuning Frequency 19.9 - 24.9 MHz: *Cf ± (29.85 - 34.85) MHz: -23.2dBm/MHz

10MHz + 15MHz System	10MHz + 20MHz System	15MHz + 15MHz System	15MHz + 20MHz System	20MHz + 20MHz System
Detuning Frequency Under 1MHz: *Cf ± (12.375 - 13.375) MHz: -20.2dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (14.95 - 15.95) MHz: -20.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (15 - 16) MHz: -20.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (17.425 - 18.425) MHz: -21.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (19.9 - 20.9) MHz: -22.2dBm/30kHz
Detuning Frequency 1 - 5 MHz: *Cf ± (13.375 - 17.375) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (15.95 - 19.95) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (16 - 20) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (18.425 - 22.425) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (20.9 - 24.9) MHz: -8.2dBm/MHz
Detuning Frequency 5 - 24.75 MHz: *Cf ± (17.375 - 37.125) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 29.9 MHz: *Cf ± (19.95 - 44.85) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 30 MHz: *Cf ± (20 - 45) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 34.85 MHz: *Cf ± (22.425 - 52.275) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 39.9 MHz: *Cf ± (24.9 - 59.7) MHz: -11.2dBm/MHz
Detuning Frequency 24.75 - 29.75 MHz: *Cf ± (37.125 - 42.125) MHz: -23.2dBm/MHz	Detuning Frequency 29.9 - 34.9 MHz: *Cf ± (44.85 - 49.85) MHz: -23.2dBm/MHz	Detuning Frequency 30 - 35 MHz: *Cf ± (45 - 50) MHz: -23.2dBm/MHz	Detuning Frequency 34.85 - 39.85 MHz: *Cf ± (52.275 - 57.275) MHz: -23.2dBm/MHz	Detuning Frequency 39.8 - 44.8 MHz: *Cf ± (59.7 - 64.7) MHz: -23.2dBm/MHz

15MHz + 15MHz + 15MHz System	10MHz + 20MHz + 20MHz System	15MHz + 15MHz + 20MHz System	15MHz + 20MHz + 20MHz System	20MHz + 20MHz + 20MHz System
Detuning Frequency Under 1MHz: *Cf ± (22.5 - 23.5) MHz: -20.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (24.85 - 25.85) MHz: -20.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (24.925 - 25.925) MHz: -20.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (27.325 - 28.325) MHz: -21.7dBm/30kHz	Detuning Frequency Under 1MHz: *Cf ± (29.8 - 30.8) MHz: -22.2dBm/30kHz
Detuning Frequency 1 - 5 MHz: *Cf ± (23.5 - 27.5) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (25.85 - 29.85) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (25.925 - 29.925) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (28.325 - 32.325) MHz: -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz: *Cf ± (30.8 - 34.8) MHz: -8.2dBm/MHz
Detuning Frequency 5 - 45 MHz: *Cf ± (27.5 - 67.5) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 49.7 MHz: *Cf ± (29.85 - 74.55) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 49.85 MHz: *Cf ± (29.925 - 74.775) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 54.85 MHz: *Cf ± (32.325 - 81.975) MHz: -11.2dBm/MHz	Detuning Frequency 5 - 59.6 MHz: *Cf ± (34.8 - 89.4) MHz: -11.2dBm/MHz
Detuning Frequency 45 - 50 MHz: *Cf ± (67.5 - 72.5) MHz: -23.2dBm/MHz	Detuning Frequency 49.7 - 54.7 MHz: *Cf ± (74.55 - 79.55) MHz: -23.2dBm/MHz	Detuning Frequency 49.85 - 54.85 MHz: *Cf ± (74.775 - 79.775) MHz: -23.2dBm/MHz	Detuning Frequency 54.85 - 59.85 MHz: *Cf ± (81.975 - 86.975) MHz: -23.2dBm/MHz	Detuning Frequency 59.6 - 64.6 MHz: *Cf ± (89.4 - 94.4) MHz: -23.2dBm/MHz

TD-LTE (1888.5~1916.6MHz)

*Appendix 1 (Unwanted Emission Strength "Outband Area")

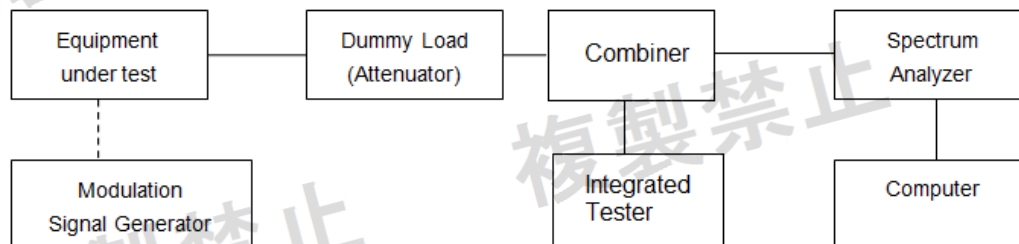
Frequency range	1.4MHz	5MHz	10MHz
Cf ± 0.7 (<) ~ (≤) 1.7MHz	-13.7dBm / 30kHz	-	-
Cf ± 1.7 (<) ~ (≤) 3.2MHz	-10dBm / MHz	-	-
Cf ± 3.2 (<) ~ (≤) 3.5MHz	-25dBm / MHz	-	-
Cf ± 2.5 (<) ~ (≤) 3.5MHz	-	-15dBm / 30kHz	-
Cf ± 3.5 (<) ~ (≤) 6.1MHz	-	-10dBm / MHz	-
Cf ± 6.1 (<) ~ (≤) 7.3MHz	-	Master : -29dBm / MHz Slave : -13dBm / MHz	-
Cf ± 7.3 (<) ~ (≤) 12.5MHz	-	Master : -36dBm / MHz Slave : -25dBm / MHz	-
Cf ± 5 (<) ~ (≤) 6MHz	-	-	-18dBm / 30kHz
Cf ± 6 (<) ~ (≤) 8.6MHz	-	-	-10dBm / MHz
Cf ± 8.6 (<) ~ (≤) 9.8MHz	-	-	Master : -29dBm / MHz Slave : -13dBm / MHz
Cf ± 9.8 (<) ~ (≤) 20MHz	-	-	Master : -36dBm / MHz Slave : -25dBm / MHz
Cf ± 20 (<) ~ (≤) 25MHz	-	-	-36dBm / MHz
1875 (<) ~ (≤) 1880MHz	-	Slave only: -36dBm / MHz	-
1895.04 (<) ~ (≤) 1896.192MHz	-12dBm / 1.152MHz		
1901.952 (<) ~ (≤) 1903.104MHz	-12dBm / 1.152MHz		
1903.68 (<) ~ (≤) 1904.832MHz	-12dBm / 1.152MHz		
1906.9 (<) ~ (≤) 1907.9MHz	-	Master : -36dBm / MHz Slave : -25dBm / MHz	-
1920 (<) ~ (≤) 1925MHz	-	Master : -33dBm / 5MHz Slave : -18dBm / 5MHz	-
1920 (<) ~ (≤) 1930MHz	-	-	Master : -30dBm / 10MHz Slave : -15dBm / 10MHz

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.6. Unwanted Emission Strength/Spurious Emission

Test Setup



Test Procedures

Set and send continuously up power control to the DUT, output power shall be maximum level, Set the SA parameter as limit table.

(1) Frequency: The center frequency

Span: 0Hz

RBW: reference bandwidth

VBW: same as RBW

Y-axis scale: 10db/Div

The maximum dynamic range of the input level

Sweep mode: single sweep

Detection mode: samples

Set the Spectrum analyzer like (1), When the searched value is less than the allowable value, the searched value is taken as the measured value. Other size set the spectrum analyzer as in (2) when the allowable value is exceeded.

(2) RBW: reference bandwidth

VBW: same as RBW

Y-axis scale: 10db/Div

The maximum dynamic range of the input level

Sweep mode: single sweep

Detection mode: Peak

Limits

TD-LTE

Frequency Range	2GHz Band (2,010~2,025MHz)	2.3GHz Band (2,330~2,370MHz)	3.5GHz Band (3,400~3,600MHz)
9kHz~150kHz	-36dBm/1kHz		
150kHz~30MHz	-36dBm/10kHz		
30~1,000MHz (exceptas*)	-36dBm/100kHz		
*773~803MHz	-	-50dBm/MHz	
*860~890MHz	-	-50dBm/MHz	
*945~960MHz	-	-50dBm/MHz	
1,000~12,750MHz (exceptas*)	-30dBm/MHz		
*1,475.9~1,510.9MHz	-	-50dBm/MHz	-

*1,805.0–1,845.0MHz	-	-50dBm/MHz	-
*1,845.0–1,880.0MHz	-	-50dBm/MHz	
*2,010.0–2,025.0MHz	-	-50dBm/MHz	
*2,110.0–2,170.0MHz	-	-50dBm/MHz	
*3,400.0–4,100.0MHz	-	-50dBm/MHz	-
*4,500.0–4,900.0MHz	-	-50dBm/MHz	-
		(Note.4)-30dBm/MHz	
12,750.0–18,000.0MHz	-	-	-30dBm/MHz
Note: When the "lower end-1MHz" to "upper end+1 MHz" of the second harmonic frequency range of the 2.3 GHz band is overlapped with the above table, "-30 dBm /MHz" is "unwanted emission strength".			

FD-LTE

Frequency Range	Genera
9kHz-150kHz	-36dBm/1kHz
150kHz-30MHz	-36dBm/10kHz
30MHz-1000MHz except as (*1)	-36dBm/100kHz
1000 – 12750 MHz except as (*1)	-30dBm/MHz
1845.0 – 1880.0 MHz (*1)	-50dBm/MHz
2010,0 – 2025.0 MHz (*1)	-50dBm/MHz
2110,0 – 2144.4 MHz (*1)	-50dBm/MHz

Frequency Range	700MHz Band (715-718MHz)	700MHz Band (718-748MHz)	800MHz Band (815-845MHz)	900MHz Band (900-915MHz)	2GHz Band (1920-1980MHz)
470-710MHz (*1)	-36dBm/100KHz	-26.2dBm/6MHz (3MHz:-36dBm/ 100KHz)	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
770-773MHz (*1)	-32dBm/MHz	-36dBm/100KHz	-36dBm/100KHz	-36dBm/100KHz	-36dBm/100KHz
773-803MHz (*1)	-50dBm/MHz		-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
860-890MHz (*1)	-50dBm/MHz		-40dBm/MHz	-40dBm/MHz (3MHz:-36dBm/1 00KHz)	-50dBm/MHz
945-960MHz (*1)	-50dBm/MHz		-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz
1475.9-1496.6MHz (*1)	-50dBm/MHz	-30dBm/MHz (*2) -50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
1496.6-1510.9MHz (*1)	-50dBm/MHz		-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
1805-1845MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
1906.6-1910.0MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-25dBm/MHz (5MHz:-30dBm/ MHz)
1910.0-1915.7MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-25dBm/MHz
2144.4-2170MHz (*1)	-30dBm/MHz (*3) -50dBm/MHz		-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
2330-2370MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3400-3419.3MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3419.3-3500.7MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3500.7-3574.7MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3574.7-3590.3MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3590.3-3600MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3600-4100MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
4500-4900MHz (*1)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz

Frequency Range	1.5GHz Band (1427.9-1462.9MHz)	1.7GHz Band	
		(1710-1750MHz)	(1750-1785MHz)
470-710MHz (*1)	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
770-773MHz (*1)	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
773-803MHz (*1)	-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz
860-890MHz (*1)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
945-960MHz (*1)	-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz
1475.9-1496.6MHz (*1)	5MHz:-30dBm/MHz 10/15/20MHz:-35dBm/MHz	-50dBm/MHz	-50dBm/MHz
1496.6-1510.9MHz (*1)	5MHz:-30dBm/MHz 10/15/20MHz:-35dBm/MHz	-50dBm/MHz	-50dBm/MHz
1906.6-1910.0MHz(*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
1910.0-1915.7MHz(*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
1805-1845MHz (*1)	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz
2144.4-2170MHz (*1)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
2330-2370MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3400-3419.3MHz (*1)	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz
3419.3-3500.7MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3500.7-3574.7MHz (*1)	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz
3574.7-3590.3MHz (*1)	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz
3590.3-3600MHz (*1)	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz
3600-4100MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
4500-4900MHz (*1)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz

Note:

Note 1, Transmission by the "one" carrier

*3MHz System: applies to the frequency range of over 7.5 MHz from center frequency. However, (*1) is excluded.

*5MHz System: applies to the frequency range of over 12.5 MHz from center frequency. However, (*1) is excluded.

*10MHz System: applies to the frequency range of over 20.0 MHz from center frequency. However, (*1) is excluded.

*15MHz System: applies to the frequency range of over 27.5 MHz from center frequency. However, (*1) is excluded.

*20MHz System: applies to the frequency range of over 35.0 MHz from center frequency. However, (*1) is excluded.

(*2) When 737.95 - 748.0MHz is used

(*3) When 715.0 - 723.33MHz is used

Note 2, Simultaneous transmission by the continuous "two" carrier

*5MHz & 5MHz: applies to the frequency range of over 19.7 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, (*1) is excluded.

*5MHz & 10MHz: applies to the frequency range of over 27.425 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, (*1) is excluded.

*5MHz & 15MHz: applies to the frequency range of over 34.7 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, (*1) is excluded.

*10MHz & 10MHz: applies to the frequency range of over 34.85 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, (*1) is excluded.

Applies the allowable value of this table to each carrier (if the frequency ranges overlap: The value of either carrier). However, it does not apply to the case of overlap in the frequency range of "Unwanted Emission Strength / Outband Area" was according to the channel spacing of the other carrier in the transmitting multiple carriers at the same time.

Note 3, Simultaneous transmission by the non-continuous "multiple" carrier

Applies the allowable value of this table to each carrier (if the frequency ranges overlap: The value of either carrier). However, it does not apply to the case of overlap in the frequency range of "Unwanted Emission Strength / Outband Area" was according to the channel spacing of the other carrier in the transmitting multiple carriers at the same time.

TD-LTE (2545-2655MHz)

Measurement Frequency range	Technical Requirement
9 kHz-150kHz	-13dBm/kHz
150 kHz- 30 MHz	-13dBm/10kHz
30-1,000 MHz	-13dBm/100kHz
1,000 MHz-2,505 MHz	-13dBm/MHz
2,505 MHz- 2,530 MHz	-30dBm/MHz
2,530 MHz- 2,535 MHz	-25dBm/MHz
2,535 MHz- 2,655 MHz (*1,*2)	-30dBm/MHz
2,655 MHz-13.5GHz	-13dBm/MHz

Note:

Note 1 Transmission by the "one" carrier

In the frequency range of "2,535 MHz-2,655 MHz"

(Does not apply to the "2,535 MHz or less" and "2,655 MHz or more" frequency range)

2.5MHz System : applies to the frequency band of "6.25 MHz or more" from center frequency.

5MHz System : applies to the frequency band of "12.5 MHz or more" from center frequency.

10MHz System : applies to the frequency band of "25 MHz or more" from center frequency.

20MHz System : applies to the frequency band of "50 MHz or more" from center frequency.

TD-LTE (1888.5~1916.6MHz)

*Appendix 1 (Unwanted Emission Strength "Spurious Area")

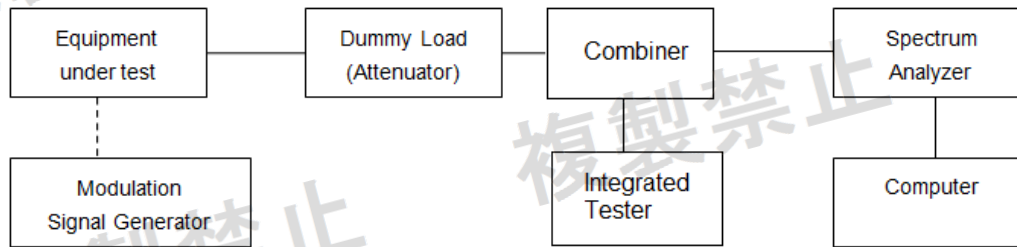
Frequency range	1.4MHz	5MHz	10MHz
30 (≤) ~ (<) 1,000 MHz	-36dBm/MHz		
1,000 (≤) ~ (<) 12,750 MHz *	-36dBm/MHz		

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.7. Adjacent Channel Leakage Power

Test Setup



Test Procedures

Set and send continuously up power control commands to the EUT, until the EUT output power shall be maximum level, Set the Integrated Tester parameter as limit table.

RBW:30KHz

VBW:100KHz

Sweep mode: continuous

Detection mode: peak

Trace mode: maxhold

Limits

Transmission System		Technical Requirement
FD-LTE	3MHz	CF $\pm$ (1.65-4.35) MHz: -50dBm or -29.2dBc/2.7MHz
		CF $\pm$ (2.08-5.92) MHz: -50dBm or -32.2dBc/3.84MHz
	5MHz	CF $\pm$ (3.08-6.92) MHz: -50dBm or -32.2dBc/3.84MHz
		CF $\pm$ (2.75-7.25) MHz: -50dBm or -29.2dBc/4.5MHz
		CF $\pm$ (8.08-11.92) MHz: -50dBm or -35.2dBc/3.84MHz
	10MHz	CF $\pm$ (5.58-9.42) MHz: -50dBm or -32.2dBc/3.84MHz
		CF $\pm$ (5.5-14.5) MHz: -50dBm or -29.2dBc/9MHz
		CF $\pm$ (10.58-14.42) MHz: -50dBm or -35.2dBc/3.84MHz
	15MHz	CF $\pm$ (8.08-11.92) MHz: -50dBm or -32.2dBc/3.84MHz
		CF $\pm$ (13.08-16.92) MHz: -50dBm or -35.2dBc/3.84MHz
		CF $\pm$ (8.25-21.75) MHz: -50dBm or -29.2dBc/13.5MHz
	20MHz	CF $\pm$ (10.58-14.42) MHz: -50dBm or -32.2dBc/3.84MHz
		CF $\pm$ (15.58-19.42) MHz: -50dBm or -35.2dBc/3.84MHz
		CF $\pm$ (11-29) MHz: -50dBm or -29.2dBc/18MHz

TD-LTE:

*Appendix 4 (Adjacent Channel Leakage Power)

*2GHz Band (2,010 ~ 2,025 MHz)

5MHz System	10MHz System	15MHz System
Cf ± 5 MHz : -50dBm/5MHz or *Cf ± (2.75 - 7.25) MHz : -29.2dBc/4.5MHz	Cf ± 10 MHz : -50dBm/10MHz or *Cf ± (5.5 - 14.5) MHz : -29.2dBc/9MHz	Cf ± 15 MHz : -50dBm/15MHz or *Cf ± (8.25 - 21.75) MHz : -29.2dBc/13.5MHz

*2.3GHz band (2,330 ~ 2,370 MHz) or 3.5GHz Band (3,400 ~ 3,600 MHz)

5MHz System	10MHz System	15MHz System	20MHz System	
Cf ± 5 MHz : -50dBm/4.5MHz or *Cf ± (2.75 - 7.25) MHz : -29.2dBc/4.5MHz	Cf ± 10 MHz : -50dBm/9MHz or *Cf ± (5.5 - 14.5) MHz : -29.2dBc/9MHz	Cf ± 15 MHz : -50dBm/13.5MHz or *Cf ± (8.25 - 21.75) MHz : -29.2dBc/13.5MHz	Cf ± 20 MHz : -50dBm/18MHz or *Cf ± (11 - 29) MHz : -29.2dBc/18MHz	
5MHz + 5MHz System	5MHz + 10MHz System	5MHz + 15MHz System	5MHz + 20MHz System	10MHz + 10MHz System
Cf ± 9.8 MHz : -50dBm/9.3MHz or *Cf ± (5.15 - 14.45) MHz : -29.2dBc/9.3MHz	Cf ± 14.95 MHz : -50dBm/13.95MHz or *Cf ± (7.975 - 21.925) MHz : -29.2dBc/13.95MHz	Cf ± 19.8 MHz : -50dBm/18.3MHz or *Cf ± (10.65 - 28.95) MHz : -29.2dBc/18.3MHz	Cf ± 24.95 MHz : -50dBm/22.95MHz or *Cf ± (13.475 - 36.425) MHz : -29.2dBc/22.95MHz	Cf ± 19.9 MHz : -50dBm/18.9MHz or *Cf ± (10.45 - 29.35) MHz : -29.2dBc/18.9MHz
10MHz + 15MHz System	10MHz + 20MHz System	15MHz + 15MHz System	15MHz + 20MHz System	20MHz + 20MHz System
Cf ± 24.75 MHz : -50dBm/23.25MHz or *Cf ± (13.125 - 36.375) MHz : -29.2dBc/23.25MHz	Cf ± 29.9 MHz : -50dBm/27.9MHz or *Cf ± (15.95 - 43.85) MHz : -29.2dBc/27.9MHz	Cf ± 30 MHz : -50dBm/28.5MHz or *Cf ± (15.75 - 44.25) MHz : -29.2dBc/28.5MHz	Cf ± 34.85 MHz : -50dBm/32.85MHz or *Cf ± (18.425 - 51.275) MHz : -29.2dBc/32.85MHz	Cf ± 39.8 MHz : -50dBm/37.8MHz or *Cf ± (20.9 - 58.7) MHz : -29.2dBc/37.8MHz
15MHz + 15MHz + 15MHz System	10MHz + 20MHz + 20MHz System	15MHz + 15MHz + 20MHz System	15MHz + 20MHz + 20MHz System	20MHz + 20MHz + 20MHz System
Cf ± 45 MHz : -50dBm/43.5MHz or *Cf ± (23.25 - 66.75) MHz : -29.2dBc/43.5MHz	Cf ± 49.7 MHz : -50dBm/47.7MHz or *Cf ± (25.85 - 73.55) MHz : -29.2dBc/47.7MHz	Cf ± 49.85 MHz : -50dBm/47.85MHz or *Cf ± (25.925 - 73.775) MHz : -29.2dBc/47.85MHz	Cf ± 54.65 MHz : -50dBm/52.65MHz or *Cf ± (28.325 - 80.975) MHz : -29.2dBc/52.65MHz	Cf ± 59.6 MHz : -50dBm/57.6MHz or *Cf ± (30.8 - 88.4) MHz : -29.2dBc/57.6MHz

TD-LTE (2545-2655MHz):

*Appendix 1 (Adjacent Channel Leakage Power)

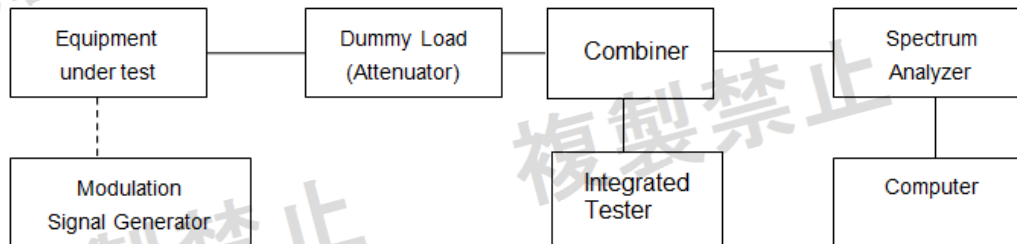
Transmission System		Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	2.5MHz	*Cf ± (1.25 - 3.75) MHz : 2dBm/2.5MHz
	5MHz	*Cf ± (2.5 - 7.5) MHz : 2dBm/5MHz
	10MHz	*Cf ± (5 - 15) MHz : 2dBm/10MHz
	20MHz	*Cf ± (10 - 30) MHz : 3dBm/20MHz
Simultaneous transmission by the continuous "two" carrier	5MHz & 5MHz	*Cf ± (4.9 - 14.7) MHz : 2dBm/9.8MHz
	5MHz & 10MHz	*Cf ± (7.475 - 22.425) MHz : 2.87dBm/14.95MHz
	10MHz & 10MHz	*Cf ± (9.95 - 29.85) MHz : 3dBm/19.9MHz
	5MHz & 20MHz	*Cf ± (12.475 - 37.425) MHz : 3.97dBm/24.95MHz
	10MHz & 20MHz	*Cf ± (14.95 - 44.85) MHz : 4.76dBm/29.9MHz
	20MHz & 20MHz	*Cf ± (19.9 - 59.7) MHz : 6dBm/39.8MHz

Test Results

The detailed test data see EFTA26030320-IE-09-R2-A.

4.8. Leakage Power at No-carrier Transmission

Test Setup



Test Procedures

Use Integrated Tester to control that the DUT is in a stopped firing state

Set the spectrum analyzer when searching for the leakage power as follow:

Spectrum Analyzer Setting

RBW: 1MHz

VBW: 1 MHz

Sweep Time: Auto

Detection Mode: Positive Peak

Set the spectrum analyzer like (1), sweep the transmission band of the land mobile station and leak.

The maximum amplitude of the power is searched. If the maximum value is less than or equal to the next value, the next exchange of that value. The calculated value is taken as the measured value.

Limits

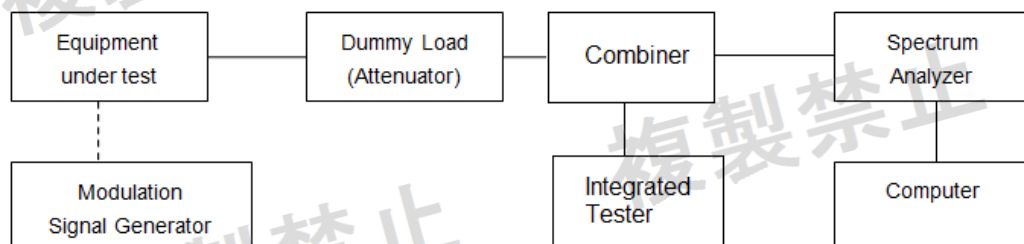
Item	FD-LTE/TD-LTE (2010~2025MHz)	2.3GHz band (2330~2370 MHz) or 3.5GHz Band (3400 ~ 3600 MHz)	TD-LTE (2545-265 5MHz)	TD-LTE (1888.5~1916. 6MHz)
Leakage Power at No-carrier Transmissio n	3MHz:-48.5dBm/2.7MHz	Channelinterval5MHz:-48.2 dBm/4.5MHz	-30dBm	80nW
	5MHz:-48.5dBm/4.5MHz	Channelinterval10MHz:-48. 2dBm/4.9MHz		
	10MHz:-48.5dBm/9MHz	Channelinterval5MHz:-48.2 dBm/13.5MHz		
	15MHz:-48.5dBm/13.5MHz	Channelinterval5MHz:-48.2 dBm/18MHz		
	20MHz:-48.5dBm/18MHz	-		

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.9. Secondly Emitted Radio Wave Strength

Test Setup



Test Procedures

Use Integrated Tester to control that the DUT is in a stopped firing state

(1) Set the spectrum analyzer when searching for the Secondly Emitted Radio Wave Strength as follow:

Spectrum Analyzer Setting

SPAN: 30MHz-12.75GHz/30MHz-13.5GHz

RBW: 100KHz ($\leq 1000\text{MHz}$)

1 MHz ($\geq 1000\text{MHz}$)

VBW: same RBW

Sweep Time: Auto

Detection Mode: Positive Peak

Set the 2pectrum analyzer like (1), When the searched value is less than the allowable value , the searched value is taken as the measured value .Other size set the spectrum analyzer as in (2) when the allowable value is exceeded.

(2) Set the spectrum analyzer when searching for the Secondly Emitted Radio Wave Strength as follow:

SPAN: 0Hz

RBW: 100 KHz ($\leq 1000\text{MHz}$)

1 MHz ($\geq 1000\text{MHz}$)

VBW: same RBW

Sweep Time: Auto

Detection Mode: Positive Peak

Limit

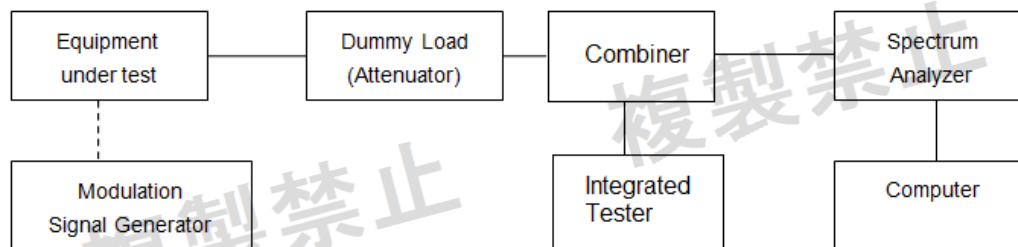
TD-LTE/FD-LTE 2.3GHz band (2330~2370 MHz) or 3.5GHz Band (3400 ~ 3600 MHz)	30MHz~1000MHz $\leq -57\text{dBm}/100\text{kHz}$ 1000MHz~12.75G $\leq -47\text{dBm}/1\text{MHz}$
TD-LTE (2545-2655MHz)	9kHz ~ 150kHz $\leq -54\text{dBm}/1\text{kHz}$ 150kHz ~ 30mHz $\leq -54\text{dBm}/10\text{kHz}$ 30MHz ~ 1000MHz $\leq -54\text{dBm}/100\text{kHz}$ 1000MHz ~ 13.5GHz $\leq -47\text{dBm}/1\text{MHz}$
TD-LTE (1888.5~1916.6MHz)	30($\leq$)~(<)1000MHz:2nW/100kHz 1($\leq$)~(<)12.75GHz:20nW/MHz

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.10. Burst Length

Test Setup



Method of Measurement

set the spectrum analyzer when searching for the Burst Length as follow:

Spectrum Analyzer Setting

SPAN: 0Hz

RBW: 1 MHz

VBW: 3MHZ

Sweep Time: Auto

Detection Mode: Positive Peak

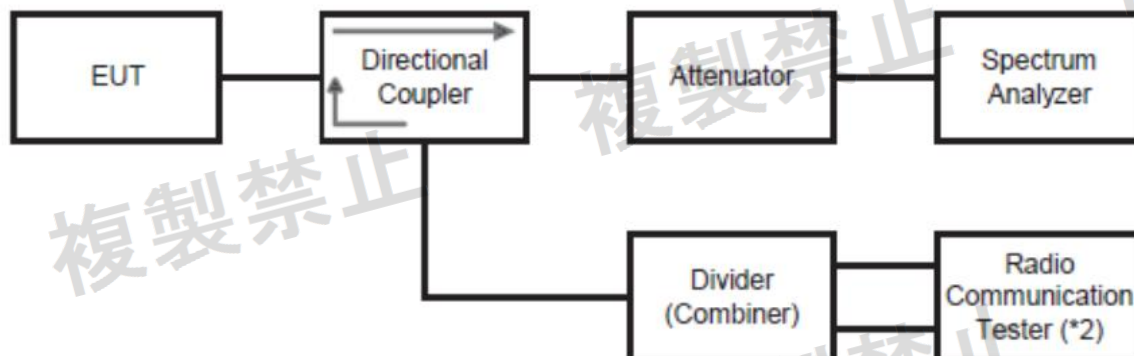
Limit (Only for TD-LTE (2545-2655MHz)):	Base Station: Land Mobile Station $M \times 625 \mu s$ or less: $N \times 625 \mu s$ or less $P \times 1000 \mu s$ or less: $Q \times 1000 \mu s$ or less Note: 1. M and N are national and $M + N = 4, 8$ or 16 2. P and Q are positive with a decimal and $P + Q = 5$ or 10 3. Burst length will be the same in 2575 ~ 2580 MHz and 2545 ~ 2575 MHz 4. Burst length will be the same in 2590 ~ 2595 MHz and 2595 ~ 2625 MHz.
---	---

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.11. Carrier Sensing Function

Test Setup



Test Procedures

Set the EUT to the receiving state:

Span: 10MHz

RBW: 100KHz

VBW: 3*RBW

Sweep time : Auto

Sweep mode: single

Detection mode: peak

Limit

Appendix 2 (Carrier Sensing Function)

	1.4MHz system	5MHz & 10MHz system
When the "master unit" acts as a substitute for the carrier sense of the "slave unit"	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -68dBm* (continuous one or more frames)	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -64dBm* (continuous one or more frames)
When the "slave unit" and the "master unit" each perform carrier sense	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -62dBm* (continuous one or more frames)	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -56dBm* (continuous one or more frames)
Master Unit	Received power of the control channels (1898.45 or 1900.25MHz only) of the digital cordless telephone : -75dBm*	When emitting radio waves with a center frequency of 1899.1 MHz, Received power of the control channels (1898.45 or 1900.25MHz only) of the digital cordless telephone : -82dBm*

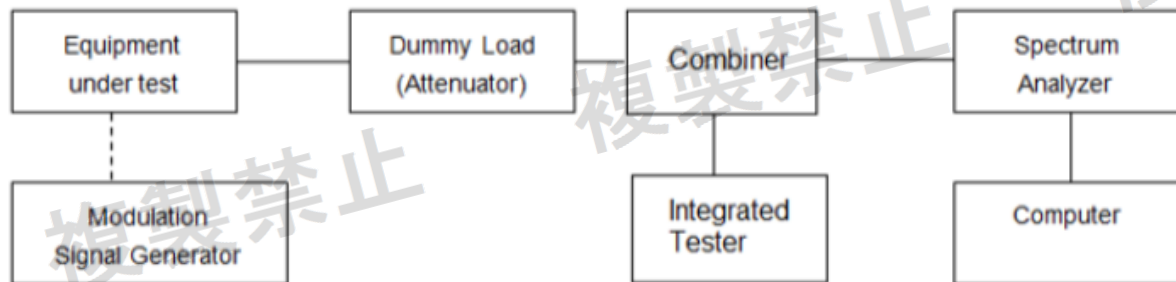
*It is possible to add the decrease of the antenna power "up to 20 dB" to the received power.
However, it is limited to the case where the antenna power is not compensated by the antenna gain.

Test Result

Carrier sensing function is supported by Base Station

4.12. Intermodulation Characteristic

Test Setup



Method of Measurement

Test procedure: Set and send continuously up power control to the DUT, output power shall be maximum level.

RBW: 30KHz - 1MHz

VBW: 3*RBW

Sweep time : Auto

Sweep mode: single

Detection mode: peak

Limits

*Appendix 6 (Intermodulation Characteristics)

2GHz Band, 2.3GHz Band, 3.5GHz Band		Desire wave	Undesire wave	Actual Measurement Range	Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	5MHz System	Rated Power	Frequency : Desire wave(±)5MHz, Output : -40dBc	*Cf ± (2.75 - 7.25) MHz	-29dBc/4.5MHz
			Frequency : Desire wave(±)10MHz, Output : -40dBc	*Cf ± (7.75 - 12.25) MHz	-35dBc/4.5MHz
	10MHz System	Rated Power	Frequency : Desire wave(±)10MHz, Output : -40dBc	*Cf ± (5.5 - 14.5) MHz	-29dBc/9MHz
			Frequency : Desire wave(±)20MHz, Output : -40dBc	*Cf ± (15.5 - 24.5) MHz	-35dBc/9MHz
	15MHz System	Rated Power	Frequency : Desire wave(±)15MHz, Output : -40dBc	*Cf ± (8.25 - 21.75) MHz	-29dBc/13.5MHz
			Frequency : Desire wave(±)30MHz, Output : -40dBc	*Cf ± (23.25 - 36.75) MHz	-35dBc/13.5MHz
	20MHz System	Rated Power	Frequency : Desire wave(±)20MHz, Output : -40dBc	*Cf ± (11 - 29) MHz	-29dBc/18MHz
			Frequency : Desire wave(±)40MHz, Output : -40dBc	*Cf ± (31 - 49) MHz	-35dBc/18MHz
	5MHz + 5MHz System	Rated Power	Frequency : Desire wave(±)9.8MHz, Output : -40dBc	*Cf ± (5.15 - 14.45) MHz	-29dBc/9.3MHz
			Frequency : Desire wave(±)19.6MHz, Output : -40dBc	*Cf ± (14.95 - 24.25) MHz	-35dBc/9.3MHz
Simultaneous transmission by the continuous "two" carrier	5MHz + 10MHz System	Rated Power	Frequency : Desire wave(±)14.95MHz, Output : -40dBc	*Cf ± (7.975 - 21.925) MHz	-29dBc/13.95MHz
			Frequency : Desire wave(±)29.9MHz, Output : -40dBc	*Cf ± (22.925 - 36.875) MHz	-35dBc/13.95MHz
	5MHz + 15MHz System	Rated Power	Frequency : Desire wave(±)19.8MHz, Output : -40dBc	*Cf ± (10.65 - 28.95) MHz	-29dBc/18.3MHz
			Frequency : Desire wave(±)39.6MHz, Output : -40dBc	*Cf ± (30.45 - 48.75) MHz	-35dBc/18.3MHz
	5MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)24.95MHz, Output : -40dBc	*Cf ± (13.475 - 36.425) MHz	-29dBc/22.95MHz
			Frequency : Desire wave(±)49.9MHz, Output : -40dBc	*Cf ± (38.425 - 61.375) MHz	-35dBc/22.95MHz
	10MHz + 10MHz System	Rated Power	Frequency : Desire wave(±)19.9MHz, Output : -40dBc	*Cf ± (10.45 - 29.35) MHz	-29dBc/18.9MHz
			Frequency : Desire wave(±)39.8MHz, Output : -40dBc	*Cf ± (30.35 - 49.25) MHz	-35dBc/18.9MHz
	10MHz + 15MHz System	Rated Power	Frequency : Desire wave(±)24.75MHz, Output : -40dBc	*Cf ± (13.125 - 36.375) MHz	-29dBc/23.25MHz
			Frequency : Desire wave(±)49.5MHz, Output : -40dBc	*Cf ± (37.875 - 61.125) MHz	-35dBc/23.25MHz
	10MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)29.9MHz, Output : -40dBc	*Cf ± (15.95 - 43.85) MHz	-29dBc/27.9MHz
			Frequency : Desire wave(±)59.8MHz, Output : -40dBc	*Cf ± (45.85 - 73.75) MHz	-35dBc/27.9MHz
	15MHz + 15MHz System	Rated Power	Frequency : Desire wave(±)30MHz, Output : -40dBc	*Cf ± (15.75 - 44.25) MHz	-29dBc/28.5MHz
			Frequency : Desire wave(±)60MHz, Output : -40dBc	*Cf ± (45.75 - 74.25) MHz	-35dBc/28.5MHz
	15MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)34.85MHz, Output : -40dBc	*Cf ± (18.6 - 51.1) MHz	-29dBc/32.5MHz
			Frequency : Desire wave(±)69.7MHz, Output : -40dBc	*Cf ± (53.45 - 85.95) MHz	-35dBc/32.5MHz
	20MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)39.8MHz, Output : -40dBc	*Cf ± (20.9 - 58.7) MHz	-29dBc/37.8MHz
			Frequency : Desire wave(±)79.6MHz, Output : -40dBc	*Cf ± (60.7 - 98.5) MHz	-35dBc/37.8MHz
	15MHz + 15MHz + 15MHz System	Rated Power	Frequency : Desire wave(±)45MHz, Output : -40dBc	*Cf ± (23.25 - 66.75) MHz	-29dBc/43.5MHz
			Frequency : Desire wave(±)90MHz, Output : -40dBc	*Cf ± (68.25 - 111.75) MHz	-35dBc/43.5MHz
	10MHz + 20MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)49.7MHz, Output : -40dBc	*Cf ± (23.85 - 73.55) MHz	-29dBc/47.7MHz
			Frequency : Desire wave(±)99.4MHz, Output : -40dBc	*Cf ± (75.55 - 123.25) MHz	-35dBc/47.7MHz
	15MHz + 15MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)49.85MHz, Output : -40dBc	*Cf ± (25.925 - 73.775) MHz	-29dBc/47.85MHz
			Frequency : Desire wave(±)99.7MHz, Output : -40dBc	*Cf ± (75.775 - 123.625) MHz	-35dBc/47.85MHz
	15MHz + 20MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)54.65MHz, Output : -40dBc	*Cf ± (28.325 - 80.975) MHz	-29dBc/52.65MHz
			Frequency : Desire wave(±)109.3MHz, Output : -40dBc	*Cf ± (82.975 - 135.625) MHz	-35dBc/52.65MHz
	20MHz + 20MHz + 20MHz System	Rated Power	Frequency : Desire wave(±)59.6MHz, Output : -40dBc	*Cf ± (30.8 - 88.4) MHz	-29dBc/57.6MHz
			Frequency : Desire wave(±)119.2MHz, Output : -40dBc	*Cf ± (90.4 - 148) MHz	-35dBc/57.6MHz

Test Result

The detailed test data see EFTA26030320-IE-09-R2-A.

4.13. Construction Protection Confirmation Method

Ambient Condition

Temperature	Relative humidity	Pressure
25°C	50%	101.5kPa

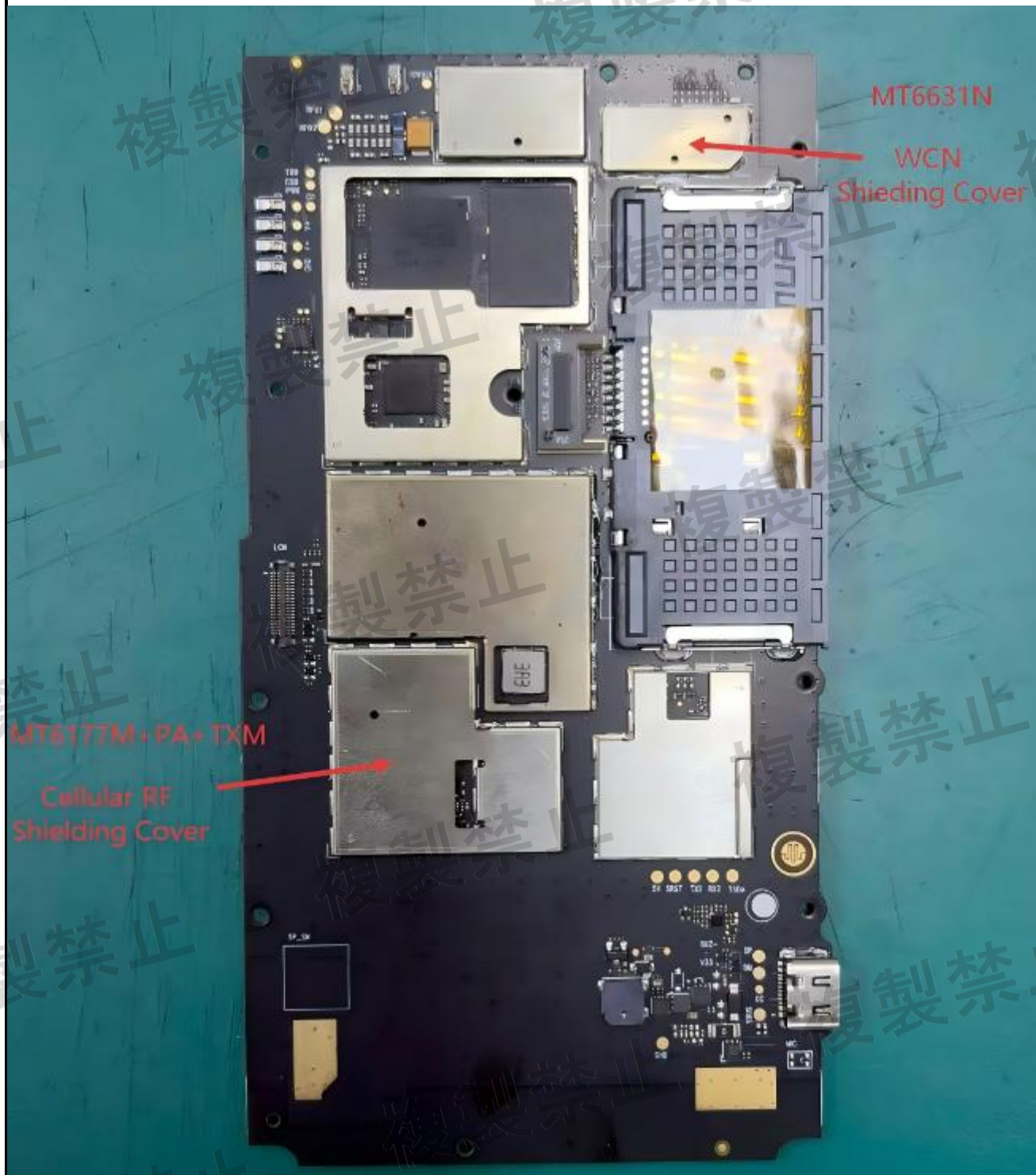
Limit

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

Test Results:

Protected Method	RF and Modulation components are covered with shielding case and this shielding case is soldered.
Description	Our products are equipped with corresponding shielding covers for all wireless radio frequency modules.

Photo



5. Uncertainty Measurement

Test Description	Uncertainty		
Test Case Name	Tolerance	Value	Unit
Output Power	±	0.50	dB
Frequency Error	±	5.00	Hz
Occupied Bandwidth	±	60.00	kHz
Adjacent Channel leakage Power	±	0.80	dB
Spurious Emissions	±	±2.0	dB
	±	±3.0	dB
	-		
	±	1.05	dB
	±	1.53	dB
	±	2.51	dB
Spurious emissions	±	3.0	dB
	-		
	±	2.0	dB
	±	2.0	dB
	±	4.0	dB
	±	2.0	dB

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Unite	Calibration Date	Expiration Time	Callibratio n Method
Vector Signal Generator	R&S	SMBV100B	102440	CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE	2025-05-06	2026-05-05	c
DC Power Supply	UNI-T	UTP1310+	C220795889	CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE	2025-05-06	2026-05-05	c
Climate Chamber	WEISS	VT 4002	5822611945001 0	CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE	2025-05-06	2026-05-05	c
Signal & Specrum Analyzer	R&S	FSW	103495	CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE	2025-05-06	2026-05-05	c
Radio Comminucation analyzer	Anritsu	MT8821C	6272348643	CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE	2025-11-24	2026-11-23	c
Software	MW	MTS 8200	V2.0.0.0	/	/	/	c
Attenuator	HASCO	HA18A-10	0003	/	/	/	c

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

7. The EUT Appearance

Refer to *EUT Appearance*.

*****END OF REPORT *****