



RF TEST REPORT

Report No.:SHATBL2512018W21

Applicant : Shanghai AllyNav Technology Co., Ltd.

Product : REMOTE RECEIVER

Brand : N/A

Model : SCU90E

Standard(s) : Ordinance Regulating Radio Equipment, Article 2
Paragraph 1, item 8, MIC notice 88 Appendix
22-03

Date Of Test : 2026.08.27~2026.08.28

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REVISION HISTORY

Rev.	Issue Date	Report No.	Effect Page	Contents
00	2026.08.28	SHATBL2512018W21	ALL	Initial Release

DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of Article 2 Paragraph 1, item 8. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.

SUMMARY OF TEST RESULT

Article 2 Paragraph 1 of Item 8 of the certification Measurement Project		
Ordinance Regulating Radio Equipment	Description of Test	Judgement
Article 5	Frequency Tolerance	Complies
Article 14	Antenna Power and Tolerance	Complies
Article 6	Occupied Bandwidth	Complies
Article 7	Unwanted Emission Strength	Complies
Article 24	Secondary Radiated Emission Strength	Complies
Article 49-14	Transmission Time Restriction	Complies
Article 49-14	Construction Protection Confirmation	Complies
Article 49-14	Carrier Sense Capability	Complies
Article 49-14	Adjacent channel leakage power	Complies
Article 15	Condition Frequency Stabilization	Complies
Article 9-4.3	Interference Prevention Function	Complies
Article 49-14	Antenna Structure	Complies

NOTE: (1)N/A means test is not applicable in this Test Report.

1 General Description

1.1. Applicant

Name : Shanghai AllyNav Technology Co., Ltd.
Address : Room 201, Building 1, No. 99, Lane 215, Gaoguang Road, Qingpu District, Shanghai, P.R.China

1.2. Manufacturer

Name : Shanghai AllyNav Technology Co., Ltd.
Address : Room 201, Building 1, No. 99, Lane 215, Gaoguang Road, Qingpu District, Shanghai, P.R.China

1.3. Factory

Name : Shanghai AllyNav Technology Co., Ltd.
Address : Room 201, Building 1, No. 99, Lane 215, Gaoguang Road, Qingpu District, Shanghai, P.R.China

1.4. Test Instruments

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Power sensor	DARE	RPR3006W	16I00054SN016	SHATBL-W008	2026.08.08	2027.08.07	1 year
Adjustable Attenuator	Agilent	8494B	MY42144015	SHATBL-W009	2026.08.08	2027.08.07	1 year
Adjustable Attenuator	Agilent	8496B	MY42143776	SHATBL-W010	2026.08.08	2027.08.07	1 year
Environmental Test Chamber	KSON	THS-B6C-150	9159K	SHATBL-W019	2026.03.31	2027.03.30	1 year
Signal analyzer	Keysight	N9020A	MY50510136	SHATBL-W003	2026.08.08	2027.08.07	1 year
Vector signal generator	Agilent	N5182A	MY48180764	SHATBL-W043	2026.08.08	2027.08.07	1 year
DC power supply	GTHLEY	DS1030	EMC0068	SHATBL-EO68	2026.03.31	2027.03.30	1 year
AVO meter	VICTOR	VC890D	093539722	SHATBL-E022	2026.08.08	2027.08.07	1 year
Analog signal generator	Keysight	N5182B	MY57300196	SHATBL-W005	2026.08.08	2027.08.07	1 year
Wideband radio communication tester	R&S	CMW500	101331	SHATBL-W007	2026.08.08	2027.08.07	1 year
Switch Box	Cesheng	smu 1003	WCS20221215	SHATBL-W046	2026.03.31	2027.03.30	1 year
Thermometer	DeLi	N/A	N/A	SHATBL-W011	2026.08.08	2027.08.07	1 year
Test Software	Cesheng	WCS-WC N	N/A	SHATBL-W021	N/A	N/A	N/A

Remark:

(a) 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

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (ActNo. 51 of 1992).

(c) 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).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c) From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

1.5. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test Items	Measurement Uncertainty	Notes
Uncertainty of Radio Frequency	$U_c = \pm 1 \times 10^{-7}$	(1)
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	(1)
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	(1)
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \text{ dB}$	(1)
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Modification Record

There were no modifications required for compliance.

1.7. Testing Site

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	5-6/F., Unit 1, No 8, Free Trade One Life Science No. 160, Basheng Road, Pudong New District, Shanghai, China
Registration No.:	CNAS L14531

2 Test General Description

2.1 Regulatory Reference

Notice No.42 of Ministry of Posts and Telecommunications (Heisei 1, 1989), General Provisions (Item 1~Item 6).

2.2 Test General Description

All tests are performed under ambient conditions complying with JIS Z 8703 standard normal temperature and humidity.

All RF parameters are measured at three representative test frequencies covering the full operating band of EUT: 921.5 MHz (low channel), 924.5 MHz (middle channel), 926.5 MHz (high channel). Per regulatory exemption clause, only nominal DC 7.3 V is adopted for all characteristic tests, as RF chip input voltage fluctuation is verified $\leq \pm 1\%$ under $\pm 10\%$ supply voltage swing.

All measuring instruments used are fully calibrated with valid certificates; spectrum analyzer adopts digital storage sweep type with measurement precision better than 1/10 of each regulatory limit.

EUT is set to continuous maximum-modulation transmission mode for all tests to capture worst-case RF emission data.

3 General Information

3.1 General Description of EUT

Equipment Name	REMOTE RECEIVER
Model Name	SCU90E
Series model	N/A
Model Difference	N/A
Sample No.	202511240018003
Power supply	6-36Vdc, 0.2A
Adapter	N/A
Battery	N/A
Hardware Version	SCU90E-MB-V1.050
Software Version	V1.6.4.3
Modulation	OFDM
Operation frequency	921.5 MHz~926.5 MHz
Declaration RF Output Power	5mW
RF Output Power	6.32 dBm
Antenna Type	External Antenna
Antenna Gain	2.53 dBi
Connecting I/O Port(s)	Refer to the remark below

Note:

1. The above EUT information was declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or user's manual.
2. For the test results, the EUT had been tested with all conditions, and only the worst case was shown in the test report.

3.2 Description Of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT,the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Frequency	Channel	Channel Bandwidth
Mode 1	921.5 MHz	1	1 MHz
Mode 2	922.5 MHz	2	1 MHz
Mode 3	923.5 MHz	3	1 MHz
Mode 4	924.5 MHz	4	1 MHz
Mode 5	925.5 MHz	5	1 MHz
Mode 6	926.5 MHz	6	1 MHz

3.3 Test Conditions

The module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 25.3°C
- Humidity: 51 %
- Atmospheric pressure: 93 kp

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power(V)	12V	39.6V	5.4V
RF Chip Input DC Power(V)	5V	5.02V	4.98V
Voltage Variation (%)	-	+0.400	-0.400

Note:

1. Voltage Variation (%) = (RF chip Input high or Low Voltage - RF chip Input Normal Voltage)/ RF chip Input Normal Voltage* 100
2. RF chip Input DC power fluctuation is verified at the power input PIN of the RF chip.

When the input supply voltage to the EUT from the external power source is varied by +/- 10%, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than +/-1%.Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

3.4 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
Other SRD	915MHz	OFDM	2.53	Default	The EUT has signal transmission whe

3.5 Block Diagram Showing The Configuration Of System Tested



3.6 Description Of Support Units(Conducted Mode)

Item	Equipment	Brand	Model	Note
E-1	Notebook	Lenovo	Air 14	N/A
E-2	DC power supply	GTHLEY	DS1030	N/A
C-1	USB Cable	ZL	24AWG	N/A

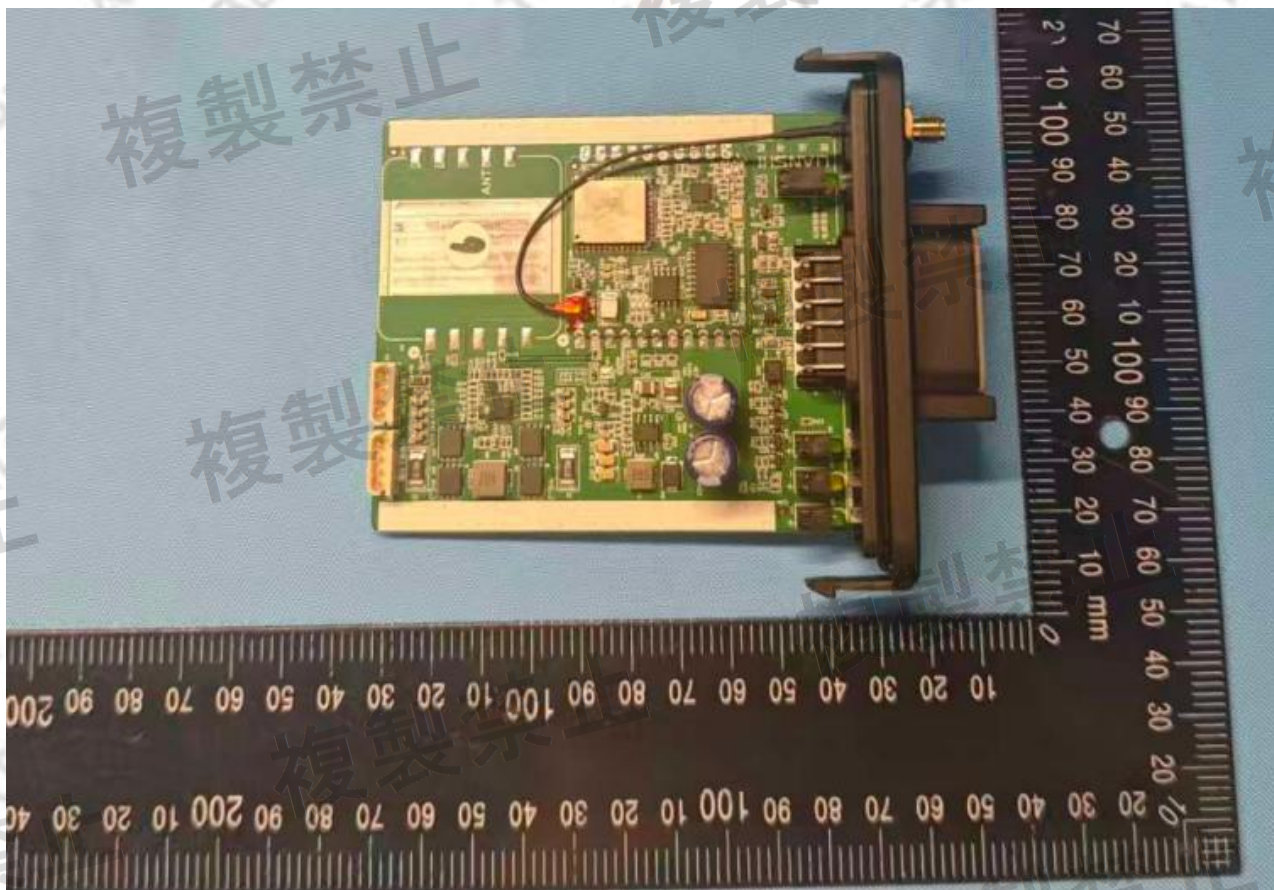
Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	150cm	N/A

Note:

- (1)The support equipment was authorized by Declaration of Confirmation.
- (2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3)“YES” is means“shielded”“with core”;“NO” is means“unshielded”“without core”.

3.7 Construction Protection Confirmation

Our products apply for Japanese radio frequency (rf) certification. We use the following methods to prevent unauthorized access and modification of RF and modulation parts. This wireless module uses a shielding cover to prevent users from disassembling and modifying it. For more information, see the following photo.

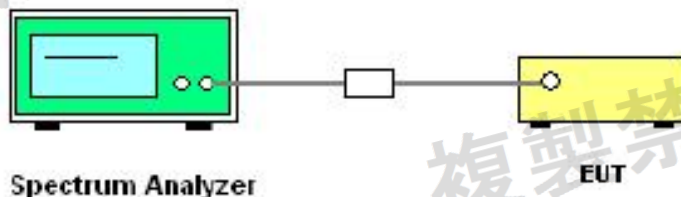


4 Frequency Tolerance

4.1 Limit

Item	Limits
Frequency Error	20×10^{-6} (20ppm)

4.2 Test Setup



4.3 Test Procedures

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

(1) In the case of unmodulated waves (continuous or continuous burst), measure directly using a frequency counter.

(2) If the burst length is extremely short compared to the repetition period, or if the burst period is long, measure using a spectrum analyzer.

(3) When measuring under the conditions specified in ②) or ③): After setting up the sweep as described in ②), take the values of all data points into computer memory. Convert the dB values of all data points to real numbers in the power dimension, sum all the power values, and obtain the "Total Power".

(4) Calculate the cumulative power in ascending order starting from the data point of the lowest frequency. Find the boundary data point where this value equals 0.5% of the "Total Power".
Calculate the cumulative power in descending order starting from the data point of the highest frequency. Find the boundary data point where this value equals 0.5% of the "Total Power".

(5) Calculate the center frequency using the formula: (Lower Boundary Frequency + Upper Boundary Frequency) / 2.

4.4 Test Result

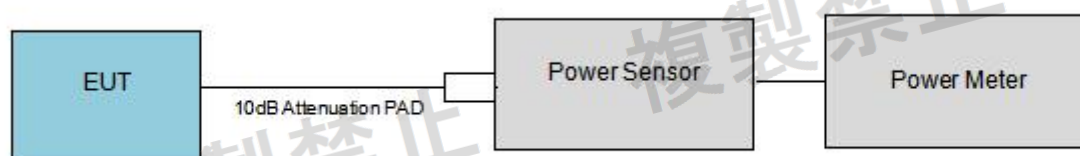
Note: The test data please refer to Appendix Chapter 1 .

5 Antenna Power and Tolerance

5.1 Limit

Item	Limits
Antenna Power	< 20 mW
EIRP	< 40 mW
Antenna Power tolerance	Maximum +20%, Minimum -80 %

5.2 Test Setup



5.3 Test Procedures

1. Perform zero adjustment of the power meter.
2. Set the test equipment to transmission status.
3. When measuring average power, the value of the average power meter is taken as the measured value. However, in the case of burst waves, transmission is performed with a constant burst time ratio. The repetitive burst wave power PB is measured with a power meter over a time sufficiently longer than the burst period, and the average value P per burst interval is calculated by the following formula:

$$P = PB \times (T / B)$$
 T: Burst repetition period
 B: Burst length
4. In the measurement of average power, if the burst length is extremely short compared to the burst repetition period, or if the burst period is long, set the spectrum analyzer as shown in 2 ③. Set the center frequency to the allocated frequency, and take the value where the in-burst average power is maximum as the measured value.
5. When using a spectrum analyzer to measure peak power, set it as shown in 2 ④. Set the center frequency to the allocated frequency and measure the peak power.
6. Method of recording test results, Results are recorded with the absolute value of the antenna power in units of W, and as a single symbol with a deviation from the antenna power specified in the engineering design document, expressed with a sign (±%) or a negative sign, retaining one decimal place.

5.4 Test Deviation

There is no deviation with the original standard.

5.5 Test Result

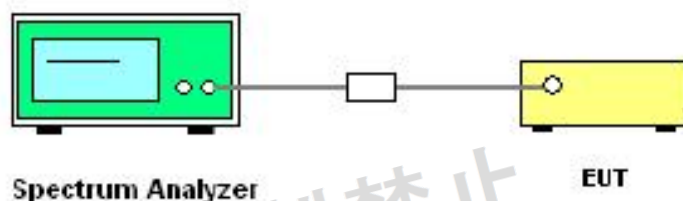
Note: The test data please refer to Appendix Chapter 2.

6 Occupied Bandwidth

6.1 Limit

Type		Simultaneous use channel	Frequency Allocation	OBW	Carrier Sensing Function, Transmission Time
920.5~928.1MHz		n=1	920.6 ~ 928.0MHz (200kHz interval 38 channels)	200kHz	See Table 1
		n=2	920.7 ~ 927.9MHz (200kHz interval 37 channels)	400kHz	
		n=3	920.8 ~ 927.8MHz (200kHz interval 36 channels)	600kHz	
		n=4	920.9 ~ 927.7MHz (200kHz interval 35 channels)	800kHz	
		n=5	921.0~927.6MHz (200kHz interval 34 channels)	1000kHz	
915.9~929.7MHz	915.9~928.1MHz	n=1	916.0 ~ 928.0MHz (200kHz interval 61 channels)	200kHz	See Table 1
		n=2	916.1 ~ 927.9MHz (200kHz interval 60 channels)	400kHz	
		n=3	916.2 ~ 927.8MHz (200kHz interval 59 channels)	600kHz	
		n=4	916.3 ~ 927.7MHz (200kHz interval 58 channels)	800kHz	
		n=5	916.4 ~ 927.6MHz (200kHz interval 57 channels)	1000kHz	
	928.1~929.7MHz	n=1	928.15 ~ 929.65MHz (100kHz interval 16 channels)	100kHz	See Table 2
		n=2	928.20 ~ 929.60MHz (100kHz interval 15 channels)	200kHz	
		n=3	928.25 ~ 929.55MHz (100kHz interval 14 channels)	300kHz	
		n=4	928.30 ~ 929.50MHz (100kHz interval 13 channels)	400kHz	
		n=5	928.35 ~ 929.45MHz (100kHz interval 12 channels)	500kHz	

6.2 Test Setup



6.3 Test Procedures

1. Configure the spectrum analyzer as shown in Fig. 2.
2. Continue sweeping until no change is observed on the display, then read the value of all data into the computer.
3. For the spectrum analyzer, convert the dB values to linear power values, sum these values to determine the 'Total Power'.
4. Determine the lower limit frequency by sequentially adding the power values starting from the lowest frequency. The boundary point's frequency is designated as the 'Lower Limit Frequency'. This value corresponds to the boundary where the in-burst average power reaches 0.5% of the 'Total Power'.
5. Determine the upper limit frequency by sequentially adding the power values starting from the highest frequency. The boundary point's frequency is designated as the 'Upper Limit Frequency'. This value corresponds to the boundary where the in-burst average power reaches 0.5% of the 'Total Power'.

6.4 Test Deviation

There is no deviation with the original standard.

6.5 Eut Operation During Test

The EUT was programmed to be in continuously transmitting mode.

6.6 Test Result

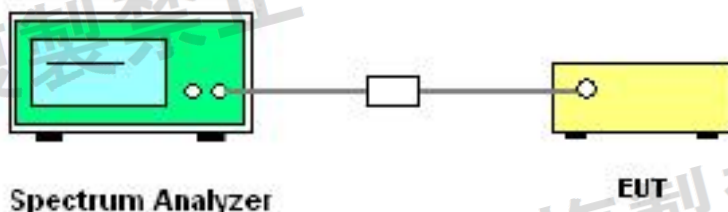
Note: The test data please refer to Appendix Chapter 3.

7 Unwanted Emission Strength

7.1 Limit

$\leq 710\text{MHz}$: -36dBm/100kHz $710\text{MHz} <, \leq 900\text{MHz}$: -55dBm/1MHz $900\text{MHz} <, \leq 915\text{MHz}$: -55dBm/100kHz $915\text{MHz} <, \leq 930\text{MHz}$: -36dBm/100kHz $933\text{MHz} <, \leq 1000\text{MHz}$: -55dBm/100kHz $1000\text{MHz} <, \leq 1215\text{MHz}$: -45dBm/1MHz $1215\text{MHz} <$: -30dBm/1MHz
*Unt channel 200kHz BW: except "200+100x n kHz" from Cf *Unt channel 100kHz BW: except "100+50 x n kHz" from Cf

7.2 Test Setup



7.3 Test Procedures

Spectrum Parameter		Setting
Attenuation		Auto
RB/VB	30 MHz to 710 MHz	100kHz
	710 MHz to 900 MHz	1MHz
	900 MHz to 915 MHz	100kHz
	915 MHz to 930MHz	100kHz
	930 MHz to 1000 MHz	100kHz
	1000 MHz to 1215 MHz	1MHz
	1215 MHz to 5000 MHz	1MHz
Detector		Peak
Trace		Max hold
Sweep Time		Auto

- (1) Set the spectrum analyzer as specified in (1), and perform the spurious emission measurement excluding the carrier.
- (2) When the measurement value (carrier frequency level + decomposition band conversion value) is less than the permissible value specified in the technical regulation, measure the (decomposition band conversion value). The decomposition band conversion value is calculated by the following formula:
 Decomposition Band Conversion Value = $10\log (\text{Carrier Band Width} / \text{Decomposition Band Width during Measurement})$
- (3) Perform the spurious emission measurement excluding the carrier (carrier frequency level + decomposition band conversion value) when the measurement value is equal to or greater than the permissible value specified in the technical regulation. However, the frequency range in which the measurement is performed must be within 4 dB of the frequency range where the permissible value specified

in the technical regulation is exceeded.

(4) Using the spectrum analyzer, measure the average power level across the entire decomposition band width specified in Appendix 1, paragraph 3(2) of the standard, setting the center frequency of the spectrum analyzer to Ps. Record this as Ps.

(5) Set the spectrum analyzer as specified in (2), and set the center frequency of the spectrum analyzer to the carrier frequency.

(6) Connect the spectrum analyzer, input all the data into the computer's variable field.

(7) For all data, convert the dB value to the true value of power.

(8) Calculate the total power sum of all data using the formula below, and designate this as PC.

(9) Set the spectrum analyzer as specified in (2), and set the center frequency of the spectrum analyzer to each frequency that exceeds the permissible value in (3).

(10) Disconnect the spectrum analyzer, and input the values of all data points into the computer's assignment variable.

(11) For all data, convert the dB value to the true value of power.

(12) Calculate the total power sum of all data in the same way as in (8), and designate this as Ps.

(13) Use the following formula for the unwanted emission power.

Unwanted Emission Power = $(P_s / P_c) \times P_e$

Ps : Total power sum of all data when the center frequency is set to each frequency that exceeds the permissible value

Pc : Total power sum of all data when the center frequency is set to the carrier frequency

Pe : Average power within the burst

7.4 Test Deviation

There is no deviation with the original standard.

7.5 Test Result

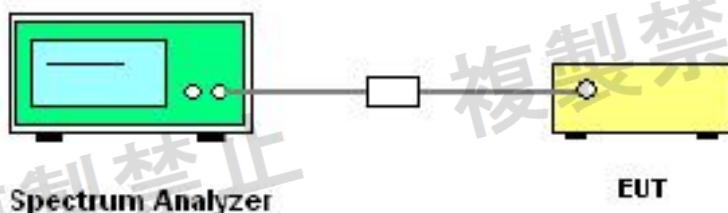
Note: The test data please refer to Appendix Chapter 4.

8 Secondary Radiated Emission Strength

8.1 Limit

$\leq 710\text{MHz}$: -54dBm/100kHz
 $710\text{MHz} < , \leq 900\text{MHz}$: -55dBm/1MHz
 $900\text{MHz} < , \leq 915\text{MHz}$: -55dBm/100kHz
 $915\text{MHz} < , \leq 930\text{MHz}$: -54dBm/100kHz
 $930\text{MHz} < , \leq 1000\text{MHz}$: -55dBm/100kHz
 1000MHz : -47dBm/1MHz

8.2 Test Setup



8.3 Test Procedures

Spectrum Parameter		Setting
Attenuation		Auto
RB/VB	30 MHz to 710 MHz	100kHz
	710 MHz to 900 MHz	1MHz
	900 MHz to 915 MHz	100kHz
	915 MHz to 930MHz	100kHz
	930 MHz to 1000 MHz	100kHz
	Above 1000 MHz	1MHz
Detector		Peak
Trace		Max hold
Sweep Time		Auto

(1) Set the spectrum analyzer as specified in (2), and sweep from 30 MHz to 5 GHz to explore the maximum amplitude of the spurious emissions.

(2) If the explored value is below the permissible value specified in the technical regulation, adopt the explored value as the measurement value.

(3) If the explored value exceeds the permissible value specified in the technical regulation, find the frequency of the spurious emissions, set the spectrum analyzer as specified in (2), and perform the averaging process to measure the average power level.

(4) If it is not possible to set the receiver to the state where it uses the unlicensed frequency band shared by transmission and reception when using the common antenna for transmission and reception, measure the transmission output using the spectrum analyzer while removing the carrier frequency from the signal source according to the method specified in (3) or later, and record this as the transmission output.

8.4 Test Result

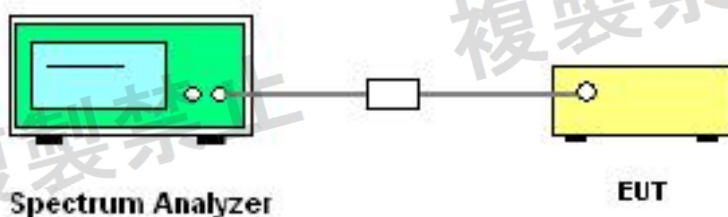
Note: The test data please refer to Appendix Chapter 5.

9 Transmission Time Restriction

9.1 Limit

Item	Limits
Transmission Time Restriction	Transmission time:360sec/hour or less(except Acknowledge)
	Transmission ON :within 0.4 sec. Transmission OFF:over 0.002 sec.
	Transmission ON :within 0.006 sec. Transmission OFF:No requirement

9.2 Test Setup



9.3 Test Procedures

Spectrum Parameter	Setting
Attenuation	Auto
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Writ
Sweep Time	Auto

(1) Set the spectrum analyzer as specified in (2), set the trigger condition to trigger when a burst starts, and set the test equipment to the radio wave transmission state.

(2) Verify that the emission of radio waves stops within the time specified in the technical regulation, and furthermore, verify that the transmission stop time is as specified in the technical regulation.

(3) If the time resolution of the spectrum analyzer is insufficient for measuring the transmission stop time, shorten the sweep time (set the trigger condition of the spectrum analyzer to trigger when a burst ends as specified in (2) or later), and verify that the time after the test equipment stops radio wave transmission is as specified in the technical regulation.

9.4 Test Deviation

There is no deviation with the original standard.

9.5 Test Result

Note: The test data please refer to Appendix Chapter 6.

10 CARRIER SENSE CAPABILITY

10.1 Limit

Radio equipment shall check if the interference exists by the carrier sense procedure before its new transmission.

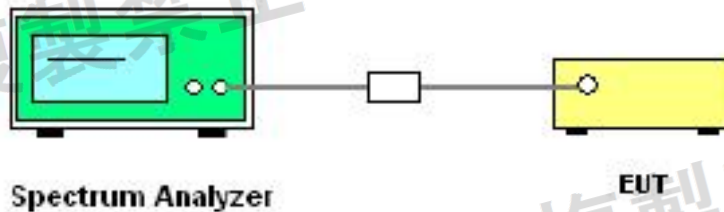
Carrier sense level: -80dBm.

Bandwidth of carrier sense: Equal to the bandwidth of its transmitting radio channel.

Carrier sense level that is the amount of received power at all unit radio channels included in the radio channel.

to emit shall be -80 dBm at the antenna input. When the carrier sense level is not less than -80 dBm, radio equipment shall not transmit any radio waves.

10.2 Test Setup



10.3 Test Procedures

- (1) Set The EUT state in "normal mode link".
- (2) SG adjusted the frequency as same as the EUT transmitted signal and power level is -80 dBm
- (3) Turn off the RF signal of the SG.
- (4) EUT have transmitted the maximum modulation signal and fixed channelize.
- (5) Setting the spectrum as Bellow :
 RBW/VBW=1MHz/1MHz
 Span=0MHz
 Sweep time=auto
 Sweep mode=continuous
 Detect mode=positive peak
- (6) SG RF signal on.
- (7) Conform the transmitting status of the device.

10.4 Test Deviation

There is no deviation with the original standard.

10.5 Eut Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.6 Test Result

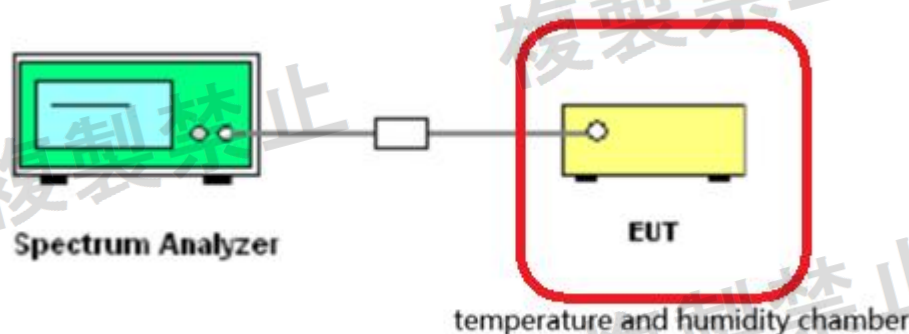
Good, Compliant, no radio waves emit.

11 Condition Frequency Stabilization

11.1 Limit

Item	Limits
Condition Frequency Stabilization	Low Frequency ≥ 920.5 High Frequency ≤ 928.1

11.2 Test Setup



11.3 Test Procedures

- (1) Setup: Connect the EUT placed inside the temperature and humidity chamber to the Spectrum Analyzer outside.
- (2) Initial Test: At normal temperature and pressure, turn on the EUT and record the initial center frequency (F0) using the Spectrum Analyzer.
- (3) Chamber Setting: Turn off the EUT, set the chamber to the specified temperature and humidity, and wait for stability.
- (4) Condition Test: Turn on the EUT inside the chamber and monitor/record the current center frequency (F1) via the Spectrum Analyzer.
- (5) Verification: Repeat the test under different conditions and calculate the frequency deviation (F1 - F0) to check against the limits.

11.4 Test Deviation

There is no deviation with the original standard.

11.5 Eut Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.6 Test Result

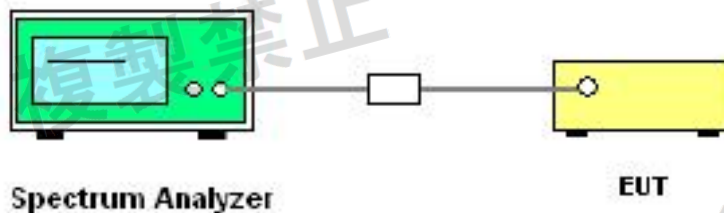
Note: The test data please refer to Appendix Chapter 8.

12 Adjacent channel leakage power

12.1 Limit

Item	Limits
Adjacent unit channels	-15dBm or less

12.2 Test Setup



12.3 Test Procedures

Spectrum Parameter	Setting
Attenuation	Auto
RB	200 Hz
VB	200 Hz
Detector	Peak
Trace	Writ
Sweep Time	Auto

(6) After the sweep is completed, load the values of all data points into the array variable of the computer.

(7) Convert the dB values for all data points into electric power values.

(8) Calculate the total electric power and designate it as PU.

(4) Measurement of upper adjacent channel leakage power PU

Using the center frequency of (carrier frequency+100kHz×(n+1)), load the values of each data point within the unit wireless channel width (200kHz) into the computer's array variable.

Convert these data points into electric power values, sum them, and designate this as PU.

(5) Measurement of lower adjacent channel leakage power PL

Using the center frequency of (carrier frequency-100kHz×(n+1)), load the values of each data point within the unit wireless channel width (200kHz) into the computer's array variable.

Convert these data points into electric power values, sum them, and designate this as PL.

(6) Repeat the measurement procedures from (1) to (5).

12.4 Test Deviation

There is no deviation with the original standard.

12.5 Eut Operation During Test

The EUT was programmed to be in continuously transmitting mode.

12.6 Test Result

Note: The test data please refer to Appendix Chapter 7.

13 Interference Prevention Function

13.1 Limit

Item	Limits
Identification code	≥ 48 bits

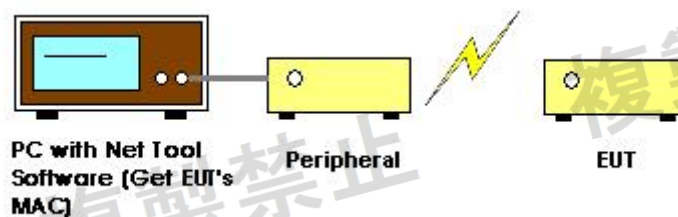
13.2 MEASURING ID CODE SOFTWARE

A communication link is established by triggering a pulse signal via a physical button.

13.3 Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes from EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes from the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes from the counterpart.
 - d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

13.4 Test Setup



13.5 Test Deviation

There is no deviation with the original standard.

13.6 Eut Operation During Test

The EUT was programmed to be in continuously transmitting mode.

13.7 Test Of Radio Result Interference Prevention Capabilit

Item	Limits	Result
WPA KEY	≥ 48 bits	PASS
AC429EE1CE2C5B9CD2875150DECAC6EE4936EF 3A543B3E10095886A573A9EF2A		

Note: The pairing method is implemented using triggering a pulse signal via a physical button.

14 Antenna Structure

14.1 Requirement

The gain of antenna used should less than 3dBi.

14.2 Confirmation

The gain of antenna used is 2.53Bi, good.

15 Setup photos of EUT

Please refer to Appendix.

16 External and Internal Photos of EUT

Please refer to Appendix.

-----END OF THE REPORT-----