ACCREDITED
CERT #5473.03

Test Report No.:
TELECSZ2025-0015-RF3

RF Test Report

NAME OF SAMPLE	:	**Car Passenger**
APPLICANT	:	アイテル株式会社
CLASSIFICATION OF TEST	:	**Commission Test**

CVC Testing Technology (Shenzhen) Co., Ltd.

複製禁止

Applicant	**Name :** アイテル株式会社 **Address : Shin-Osaka Meiko Bldg.6F 4-3-12 Miyahara, Yodogawa-Ku, Osaka City, Osaka Japan**
Manufacturer	**Name : ShenZhen Bijiasuo Electronic Co.,Ltd** **Address :105 Building 13th,Software Town of Shenzhen Universiade,8288 Longgang Avenue,Heao Community,Yuanshan Street,Longgang District,Shenzhen,China**
Equipment Under Test	**Name :Car Passenger** **Model/Type: AIT-BMC-HCA-C** **Additional model: N/A** **Trade mark :Car Passenger** **Serial NO.:N/A** **Sampe NO.:2-1**

Date of Receipt.	**Jun.24,2025**	Date of Testing	**Jun.24,2025～Oct.16,2025**

Test Specification	**Test Result**
Article 2 Section 1 Item 19 **MIC Notice No.88 Appendix No.43**	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC **Issue Date:Oct.16,2025**

Compiled by:	Reviewed by:	Approved by:
Liang Jiatong	Mo Xianbiao	Dong Sanbi
Name Signature	Name Signature	Name Signature

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

TABLE OF CONTENTS

RELEASE CONTROL RECORD **4**

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS 6

2 SUMMARY OF TEST RESULTS **5**

2.1 TEST LOCATION 6
2.2 MEASUREMENT UNCERTAINTY 7

3 GENERAL INFORMATION **8**

3.1 GENERAL PRODUCT INFORMATION 8
3.2 DESCRIPTION OF ACCESSORIES 9
3.3 DESCRIPTION OF TEST CHANNELS 9
3.4 ENVIRONMENTAL CONDITIONS 10
3.5 ASSEMBLY 10
3.6 ANTENNA SPECIFICATIONS 11
3.7 GENERAL DESCRIPTION OF APPLIED STANDARDS 12
3.8 DESCRIPTION OF SUPPORT UNITS 12

4 TEST TYPES AND RESULTS **13**

4.1 FREQUENCY TOLERANCE MEASUREMENT 13
4.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH) 14
4.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH) 15
4.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT 16
4.5 ANTENNA POWER MEASUREMENT 17
4.6 SPURIOUS EMISSIONS FOR RECEIVER 18
4.7 DWELL TIME 19
4.8 INTERFERENCE PREVENTION FUNCTION 20

5 PHOTOGRAPHS OF TEST SETUP **21**

6 PHOTOGRAPHS OF THE EUT **22**

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
TELECSZ2025-0015-RF3	Original release	Oct.16,2025

複製禁止

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Item	Article 2 Section 1 Item 19 Reference	ARIB STD-T66 Reference	Report reference	Result
GENERAL PROVISIONS				
Frequency Tolerance	C	3.2 (4)	3.1	PASS
Occupied bandwidth	D	3.2 (7)	3.2/3.3	PASS
Spurious emissions	E	3.2 (6)	3.4	PASS
TRANSMITTING EQUIPMENT				
Antenna power	F	3.2 (1)	3.5	PASS
SAR	--	--	--	N/A
TRANSMITTING ANTENNA				
Type, configuration, etc. of transmitting antenna	--	--	2.6	PASS
Direction pattern of transmitting antenna	--	--	2.6	PASS
RECEIVING EQUIPMENT				
Spurious emissions of receiver	H	3.3 (1)	3.6	PASS
Refer to all articles for transmitting antenna	--	--	2.6	PASS
OPERATING FREQUENCY 2402 TO 2480MHz				
High Frequency/modulation section cannot be opened easily	--	3.7 (1)	2.5	PASS
Communication method	--	3.1 (1)	2.1	PASS
Modulation method	--	3.2 (1)a	2.1	PASS
Spread spectrum method	--	3.2 (1)a	3.3	Only for reported
Angular width of principal radiation (AWPR)	--	3.6 (2)	3.5	N/A(Note 2)
Antenna power	--	3.2 (2)	3.5	PASS
Diffusion bandwidth	--	3.2 (8)	3.3	PASS
Spreading factor	--	3.2 (9)	3.3	Only for reported
Frequency retention time (FH employed)	--	3.4.1 (1)	3.7	PASS
Interference Prevention Function	--	3.4.1 (3)	3.8	PASS

Note:
Note 1:N/A: In this whole report not applicable.
Note 2:The transmitting EIRP less 6.91dbm/MHz

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2026/4/22
Signal&Spectrum Analyzer	Keysight	N9020B	/	1 year	2026/4/22
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168587	1 year	2026/5/22
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2026/4/22
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2026/4/22
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2026/4/22
10db attenuator	JUNKE	SMA-10-18-N	250312743	1 year	2026/6/6
Power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2026/6/6
Temperature and humidity meter	/	C193561457	C193561457	1 year	2026/4/28
DC Power	Rohde&Schwarz	HMC8041	CS0300026	1 yea	2026/5/8
Power meter	Tonscend	JS0806-2	CS0300023	1 year	2026/4/22

1.2 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

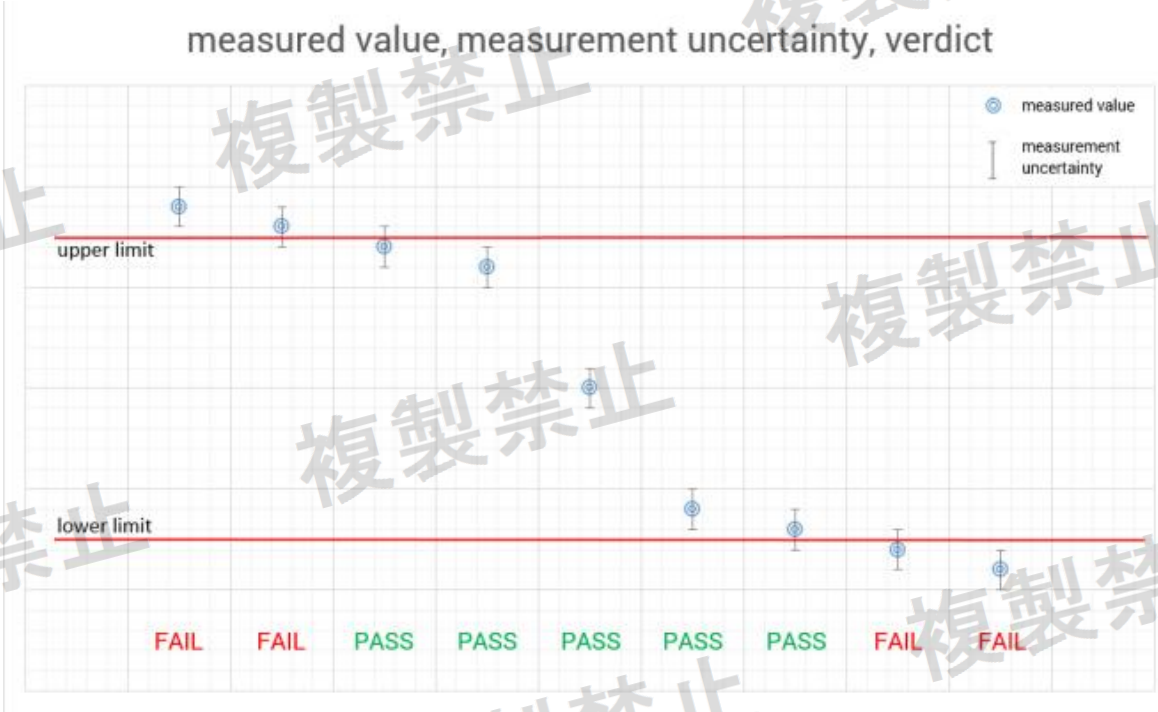
Lab Address: No. 1301-14, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China
Post Code：518110 Tel：0755-23763060-8805
Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn
FCC(Test firm designation number：CN1363)
IC(Test firm CAB identifier number：CN0137)
CNAS(Test firm designation number：L16091

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Support Equipment		
1	Radio frequency	± 6.4 x 10^{-8}
2	Occupied Channel Bandwidth	± 1.86 %
3	RF output power, conducted	± 0.9 dB
4	Power Spectral Density	± 0.8 dB
5	Spurious emissions ,conducted	± 2.7 dB
6	Supply voltages	± 0.68 %
7	Time	± 0.19 %
8	Adjacent Channel Power	± 1.3 dB
Remark: 95% Confidence Levels, k=2.		

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.
The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Car Passenger
BRAND	Car Passenger
MODEL	AIT-BMC-HCA-C
ADDITIONAL MODEL	N/A
POWER SUPPLY	DC 5V From USB
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, π/4 DQPSK, 8DPSK
OPERATING FREQUENCY	SIM 8971JP BT wireless transmitter : 2402MHz~2480MHz AG440 BT wireless transmitter : 2402MHz~2480MHz
NUMBER OF CHANNEL	79
RATED POWER	Please see NOTE 5
CONDUCTED POWER DENSITY	Please see NOTE 5
EIRP POWER DENSITY	Please see NOTE 5
HW-RELEASE NO	V1.0
SW-RELEASE NO	20250904V5.3
ANTENNA TYPE	SIM 8971JP BT ANT:PCB Antenna,1.97dBi Gain For BT AG440 BT ANT:PCB Antenna,1.94dBi Gain For BT
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE :

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Please refer to the EUT photo document (Reference No.: TELECSZ2025-0015-EUT) for detailed product photo.
3. Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
4. The SIM 8971JP BT wireless transmitter RF output power is as follow :

Mode	Rated power (mW/MHz)	Conducted power density (mW/MHz)	EIRP power density (dBm/MHz)
GFSK	0.1	0.0750	-9.31
π/4-DQPSK	0.1	0.0334	-12.83
8DPSK	0.1	0.0362	-12.47

5. The AG440 BT wireless transmitter RF output power is as follow :

Mode	Rated power (mW/MHz)	Conducted power density (mW/MHz)	EIRP power density (dBm/MHz)
GFSK	0.1	0.0753	-9.26
π/4-DQPSK	0.1	0.0436	-11.63
8DPSK	0.1	0.0434	-11.65

2.2 DESCRIPTION OF ACCESSORIES

N/A

2.3 DESCRIPTION OF TEST CHANNELS

Operation frequency each of channel.

Operation Frequency Each of Channel							
For BT (GFSK, π/4 DQPSK, 8 DPSK)							
CHANNEL	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**
0	**2402**	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	**78**	**2480**
19	2421	**39**	**2441**	59	2461		

Note:

1. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report except the RF output power test was shown all conditions.
2. By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

SIM 8971JP BT

GFSK		π/4-DQPSK		8DPSK	
CHANNEL	**POWER SETTING**	**CHANNEL**	**POWER SETTING**	**CHANNEL**	**POWER SETTING**
0	8	**0**	8	**0**	8
39	8	**39**	8	**39**	8
78	8	**78**	8	**78**	8

AG440 BT

GFSK		π/4-DQPSK		8DPSK	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	0x4d	0	0x4d	0	0x4d
39	0x4d	39	0x4d	39	0x4d
78	0x4d	78	0x4d	78	0x4d

2.4 ENVIRONMENTAL CONDITIONS

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

Battery Voltage	Normal Voltage / NV	-
	Low Voltage /LV	-
	High Voltage /HV	-
RF Chip Voltage	Normal Voltage / NV	3.3V
	Low Voltage /LV	3.3V
	High Voltage /HV	3.3V
Adapter Voltage	Normal Voltage / NV	DC 5.0V
	Low Voltage /LV	DC 4.5V
	High Voltage /HV	DC 5.5V
Other	Normal Temperature/Tnor:	25°C
	lative Humidity	55 %
	Air Pressure	989 hPa

Note: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/- 1 % when input voltage from an external supply into the equipment fluctuates +/- 10%, therefore, the test is carried out only at the normal voltage.

2.5 ASSEMBLY

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, Also it won't be easy to be opened. Frequency Band, channels and modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

2.6 ANTENNA SPECIFICATIONS

2.6.1 ANTENNA GAIN

MODULATION MODE	ANT.TAG	Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
BT	1	PCB Antenna	N/A	1.97
BT	2	PCB Antenna	N/A	1.94

2.6.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

2.7 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

ARTICLE 2 SECTION 1 ITEM 19
MIC Notice No.88 Appendix No.43

All test items have been performed and recorded as per the above standards

2.8 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment					
NO	**Description**	**Brand**	**Model No.**	**Serial Number**	**Supplied by**
1	Serial port board	N/A	CH340	N/A	Lab

Support Cable							
NO	**Description**	**Quantity (Number)**	**Length (m)**	**Detachable (Yes/ No)**	**Shielded (Yes/ No)**	**Cores (Number)**	**Supplied by**
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

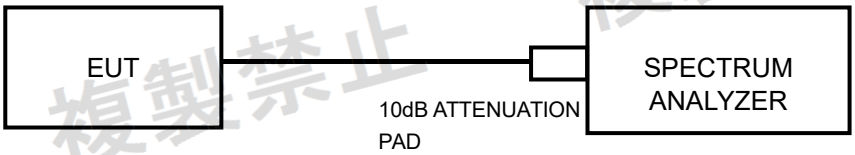
3 TEST TYPES AND RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

3.1.1 Limit

Tolerance of frequency shall be +/- 50ppm

3.1.2 Test setup



3.1.3 Test Procedure:

Frequency: Test Frequency
RBW: 10 kHz(Modulation ON),
VBW: 10 kHz(Modulation ON),
Sweep: Time Auto
Detector mode: peak
Trace mode Maxhold

3.1.4 Test results

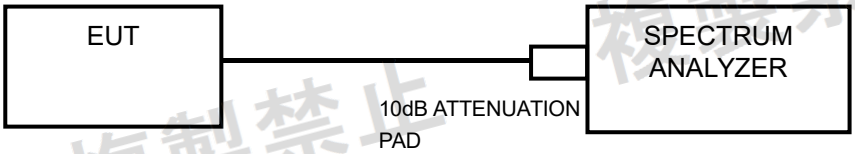
Please refer Appendix

3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

3.2.1 Limit

Occupied bandwidth shall be 83.5MHz or less.

3.2.2 Test setup



3.2.3 Test Procedure:

Spectrum Analyzer conditions: Frequency: Test Frequency
Span 200 MHz (FHSS);
RBW 1 MHz (FHSS); ＜3%*Limit (2.505MHz)
VBW 1 MHz (FHSS); Same as RBW (Others)
Sweep Time Auto
Detector mode Positive peak
Trace mode Max hold
OBW 99%

3.2.4 Test results

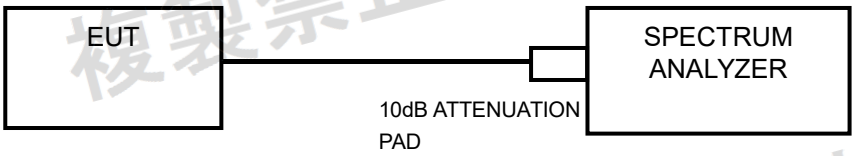
Please refer Appendix

3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)

3.3.1 Limits

ITEM	LIMIT	REMARK
SPREADING BANDWIDTH	Only for reported	(For DSSS, FHSS)
SPREADING FACTOR	Only for reported	Operating frequency 2400 to 2483.5MHz

3.3.2 Test setup



3.3.3 Test Procedure:

Spectrum Analyzer conditions: Frequency: Test Frequency
Span 200 MHz (FHSS);
RBW 1 MHz (FHSS); ＜3% OBW (Others)
VBW 1 MHz (FHSS); Same as RBW (Others)
Sweep Time Auto
Detector mode Positive peak
Trace mode Max hold
OBW 90%

3.3.4 Test result

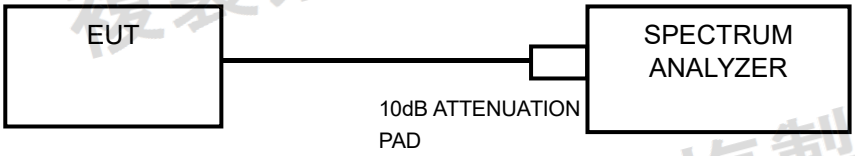
Please refer Appendix

3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

3.4.1 Limits

Frequencies (MHz)	Limit	
(MHz)	uW	dBm
Operating frequency 2400 to 2483.5MHz		
2387≦ f ＜2400	≤25	-16
2483.5＜ f ≦2496.5	≤25	-16
All other frequencies	≤2.5	-26

3.4.2 Test setup



3.4.3 Test Procedure:

Spectrum Analyzer conditions:
Step 1
All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2
IF the value measured by Step1 is 3 dB or less, measure in average mode.

Test setup for Step 1:
Frequency: 30 MHz – 2400 MHz , 2483.5 MHz –13 GHz
RBW 1 MHz (30 – 1GHz) , 1 MHz (over 1GHz)
VBW 3 MHz (30 – 1GHz) , 3 MHz (over 1GHz)
Sweep Time Auto
Detector mode Positive peak
Trace mode Max hold

Test setup for Step 2:
Frequency: Spurious Frequency
Span 0 Hz
RBW 1 MHz (30 – 1GHz) , 1 MHz (over 1GHz)
VBW 3 MHz (30 – 1GHz) , 3 MHz (over 1GHz)
Sweep Time Auto
Detector mode Sample
Trace mode Clear Write

3.4.4 Test result

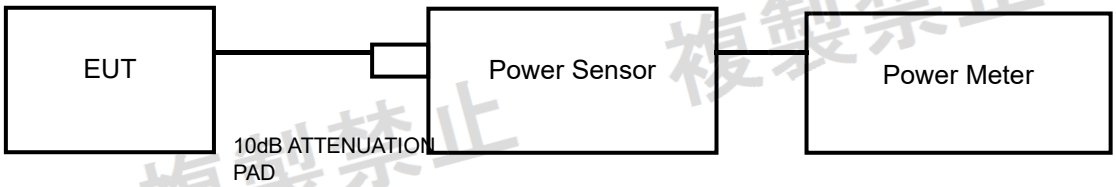
Please refer Appendix

3.5 ANTENNA POWER MEASUREMENT

3.5.1 Limits

Antenna power shall be 3mW/MHz or less.
Tolerance of antenna power shall be +20% (upper value).

3.5.2 Test setup



3.5.3 Test Procedure:

EUT conditions:
Modulation/Spread/Hopping ON, Modulation Tx
For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3.5.4 Test result

Please refer Appendix

3.6 SPURIOUS EMISSIONS FOR RECEIVER

3.6.1 Limits

Frequencies (MHz)	Limit	
(MHz)	nW	dBm
Below 1GHz	≤4	-54
Above 1GHz	≤20	-47

3.6.2 Test setup

3.6.3 Test Procedure:

Spectrum Analyzer conditions:
Step 1
All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2
IF the value measured by Step1 is 3 dB or less, measure in average mode.

Test setup for Step 1:
Frequency: 30 MHz – 2400 MHz , 2483.5 MHz –13 GHz
RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)
VBW 300 kHz (30 – 1GHz) , 3 MHz (over 1GHz)
Sweep Time Auto
Detector mode Positive peak
Trace mode Max hold

Test setup for Step 2:
Frequency: Spurious Frequency
Span 0 Hz
RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)
VBW 300 kHz (30 – 1GHz) , 3 MHz (over 1GHz)
Sweep Time Auto
Detector mode Sample
Trace mode Max hold

3.6.4 Test result

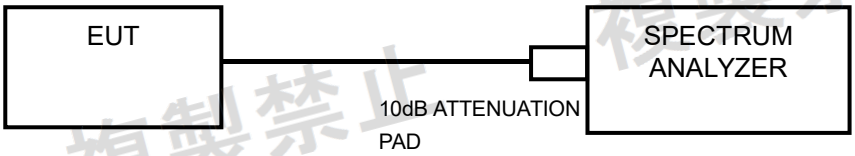
Please refer Appendix

3.7 DWELL TIME

3.7.1 Limits

The frequency retention time in the frequency hopping method shall be 0.4 second or less. The total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter.

3.7.2 Test setup



3.7.3 Test Procedure:

Step 1: Test the period of pulse (A/ms)
Step 2: Test the number of pulses in 3.16S (B/per)
Step 3: The number of pulses within 31.6S (B*10) is calculated to obtain the dwell time (A*B*10/ms)

3.7.4 Test result

Please refer Appendix

3.8 INTERFERENCE PREVENTION FUNCTION

3.8.1 Limits

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

3.8.2 Test setup

3.8.3 Test Procedure:

Standard Requirement:
1) Measurement system diagram as shown above and test equipment keep transmitting identification code.
2) Condition of measuring instrument
(1) Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
3) Condition of test equipment The mode of normal use.
4) Measuring operation procedure
(1) When test equipment has the function to transmit identification code automatically:
A) Transmit the predetermined identification code from test equipment.
B) Confirm the transmitted identification code by demodulator.

3.8.4 Test result

Please refer Appendix

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

,

5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

------ End of the Report ------

複製禁止

Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of tester, reviewer and approver;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days;

(6) Generally, commission test results apply to the samples as received. The sample information is provided by the customer and laboratory is not responsible for its authenticity;

(7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

Lab Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code：518110 Tel：0755-23763060-8805

Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn