Testing Laboratory
3023

Test Report No:
2630069R-RFJPV02S-A

TEST REPORT
Japan Rules & Regulations

Product Name	Dongle
Brand Name	ASUS
Model No.	CW101-D
Applicant´s Name / Address	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou., Taipei City 112, Taiwan
Manufacturer's Name	ASUSTeK COMPUTER INC.
Test Method Requested, Standard	MIC Notice No.88 Appendix No.43 Article 2 Paragraph 1 of Item 19
Verdict Summary	IN COMPLIANCE
Documented By Jinn Chen	Jinn Chen
Approved By Alan Chen	Alan Chen
Date of Receipt	2026/03/03
Date of Issue	2026/05/07
Report Version	V1.0

複製禁止

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2026/05/07

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	Antenna Power, Antenna Power Tolerance and E.I.R.P	PASS	-
4	Occupied Bandwidth	PASS	-
5	Frequency Tolerance	PASS	-
6	Transmitter Spurious Emissions	PASS	-
7	Receiver Spurious Emissions	PASS	-
8	Interference Prevention Function	PASS	-

Comments and Explanations
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz
Operating Frequency	2402 ~ 2480 MHz
Channel Number	40 Channels
Mode	2.4 GHz Wireless
Type of Modulation	GFSK
Declared Antenna Power	0.88 mW

Accessories Information		
No.	Equipment Name	Description
1	Wireless Mouse	--

Antenna Information				
Item.	Brand Name	Part No.	Type	Gain (dBi)
1	SHENZH BOYCHUANG TECHNOLOGY CO., LTD.	HS6210	PCB	-4.62

Working Frequency of Each Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	01	2404	02	2406
03	2408	04	2410	05	2412
06	2414	07	2416	08	2418
09	2420	10	2422	11	2424
12	2426	13	2428	14	2430
15	2432	16	2434	17	2436
18	2438	19	2440	20	2442
21	2444	22	2446	23	2448
24	2450	25	2452	26	2454
27	2456	28	2458	29	2460
30	2462	31	2464	32	2466
33	2468	34	2470	35	2472
36	2474	37	2476	38	2478
39	2480	--	--	--	--

1.2. EUT Information

EUT Power Type	From DC 5V

1.3. Testing Location Information

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No. 85, Wenlin St., Linkou Dist., New Taipei City 244017, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist.,Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual	Test Date	Tested By
RF Conducted Emission	Temperature (°C)	5~35 °C	24.8 °C	2026/04/02	Michael Chen
	Humidity (%RH)	45~85 %	52.2 %		

1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Item	Uncertainty
Antenna Power, Antenna Power Tolerance and E.I.R.P.	Spectrum Analyzer: ±2.13 dB Power Meter: ±1.07 dB
Occupied Bandwidth	±1580.61 Hz
Frequency Tolerance	±1580.61 Hz
Transmitter Spurious Emissions	±2.13 dB
Receiver Spurious Emissions	±2.13 dB
Interference Prevention Function	N/A

1.5. List of Test Equipment

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. by	Cal. Method	Cal. Date	Due Date
V	DC Power Supply	GW Instek	SPD-3606	GEQ820915	ETC	*(c)	2025/07/08	2026/07/07
V	Spectrum Analyzer	R&S	FSV30	103467	ETC	*(c)	2025/05/29	2026/05/28
V	Power Meter	Anritsu	ML2496A	1739004	ETC	*(c)	2025/05/02	2026/05/01
V	Power Sensor	Anritsu	MA2411B	1726078	ETC	*(c)	2025/05/02	2026/05/01
V	Power Sensor	Anritsu	MA2411B	1726079	ETC	*(c)	2025/05/02	2026/05/01

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: DEKRA Conduction Test System V9.0.6.
4. a) 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).

   b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).

   c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated agency under Article 102-18 paragraph (1).

   d) Calibration conducted by using other equipment that listed above from a) to c).

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition			
Testing Voltage	V_{nom} DC 5V	V_{min} DC 4.5V	V_{max} DC 5.5V

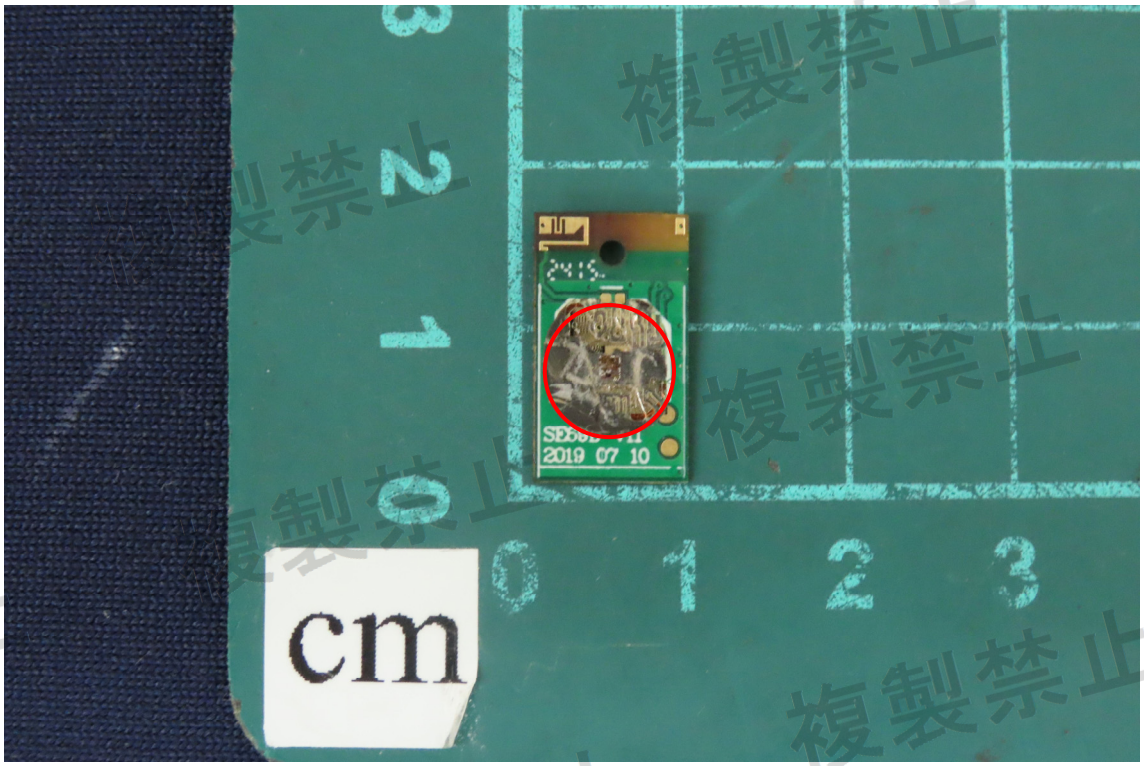
2.2. Test Frequency Mode

Test Software Version	SE67T_FccTest_V6.7.0_Aoto_Test 1.1.1.1

Modulation	Frequency (MHz)	Power Setting
GFSK (1 Mbps)	2402	9
	2440	9
	2480	9

2.3. RF and IF section must be tamper requirement

Requirement	Comments	Result
RF, IF and Modulation section must be tamper	☐Use Special Screw ☐Metal Shielding is Soldered ☒Use Ball Grid Array (BGA) (Please see Attachment: EUT Detailed Photographs)	Complete
	☒RF module/Chip pin >10 ☒RF module/Chip pins distance <1.5mm (Please see Attachment: EUT Detailed Photographs)	Complete



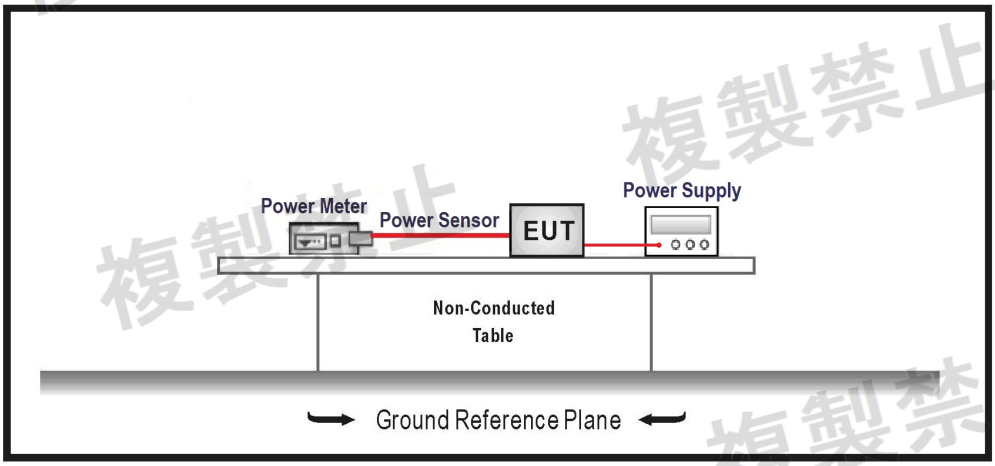
2.4. Measurement Configuration

Test Mode	Mode 1 (Transmit)	GFSK(1 Mbps)
	Mode 2 (Receive)	GFSK(1 Mbps)

Note:
1. 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. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

3. Antenna Power, Antenna Power Tolerance and E.I.R.P.

3.1. Test Setup



3.2. Test Limit

Antenna Power:

For 20MHz Bandwidth: ≦10 mW/MHz

For 40MHz Bandwidth: ≦5 mW/MHz

For Other Digital Methods: ≦10 mW

Antenna Power Tolerance: ≦+20%

EIRP:

For 20MHz Bandwidth: ≦12.14 dBm/MHz

For 40MHz Bandwidth: ≦9.13 dBm/MHz

For Other Digital Methods: ≦12.14 dBm

3.3. Test Method

According to MIC Notice No. 88 Annex 43.

3.4. Test Procedure

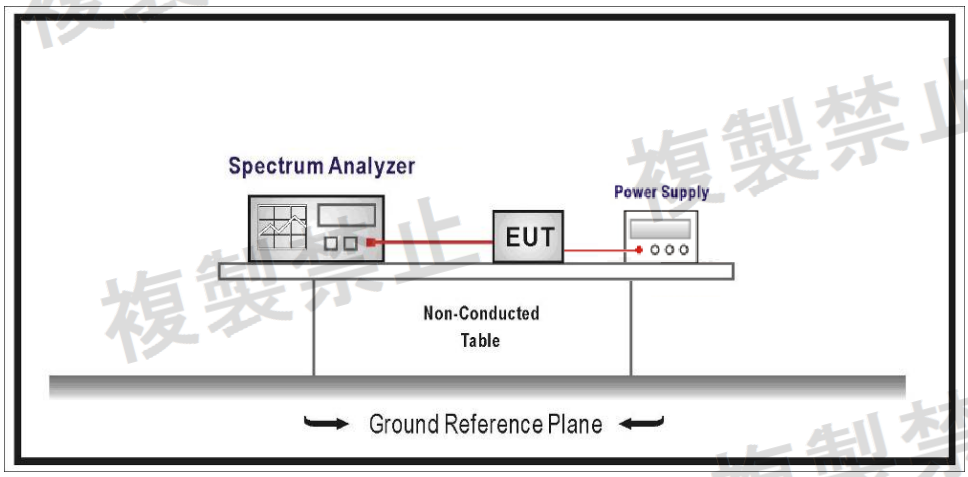
1. Connect a high-frequency power meter to the output of the dummy load (attenuator) and measure the output power.
2. Output power shall be as follows.
   (1) Value of a continuous wave.
   (2) The output power is calculated from the value and the duty factor.

3.5. Test Result of Antenna Power, Antenna Power Tolerance and E.I.R.P.

Refer as Appendix A

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Limit

≦26 MHz for DSSS , ≦83.5 MHz for FHSS

4.3. Test Method

According to MIC Notice No. 88 Annex 43.

4.4. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

(a) A positive peak detector function must be used.

(b) A measurement instrument with an integrated 99% power bandwidth function may be used to automate the test process.

(c) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.

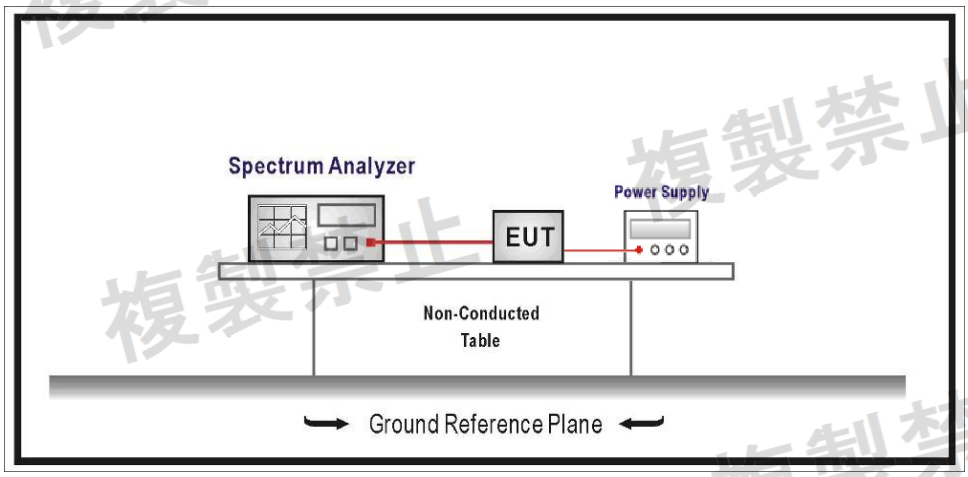
(d) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

4.5. Test Result of Occupied Bandwidth

Refer as Appendix B

5. Frequency Tolerance

5.1. Test Setup



5.2. Test Limit

± 50 ppm

5.3. Test Method

According to MIC Notice No. 88 Annex 43.

5.4. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the unmodulated transmitter's radio frequency power output.

(a) A positive peak detector function must be used.

(b) The measurement instrument bandwidth and span must be set sufficiently wide, and the scan time set sufficiently slowly, to ensure all products of the unmodulated signal are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.

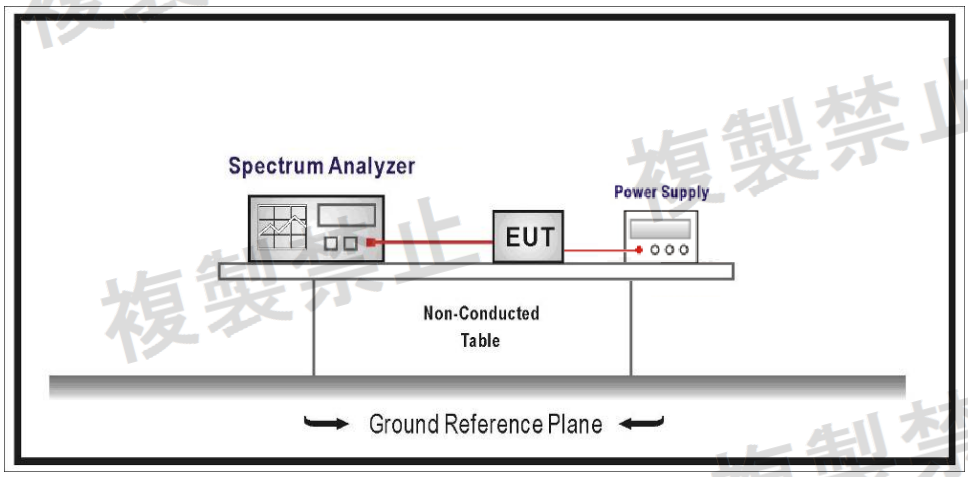
(c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

5.5. Test Result of Frequency Tolerance

Refer as Appendix C

6. Transmitter Spurious Emissions

6.1. Test Setup



6.2. Test Limit

≤ 2.5uW/MHz for 30 MHz < f < 2387 MHz

≤ 25uW/MHz for 2387 MHz ≤ f < 2400 MHz

≤ 25uW/MHz for 2483.5 MHz < f ≤ 2496.5 MHz

≤ 2.5uW/MHz for 2496.5 MHz < f < 12500 MHz

6.3. Test Method

According to MIC Notice No. 88 Annex 43.

6.4. Test Procedure

The EUT is connected to the spectrum analyzer and it is configured at maximum output power in the different test channels.

(a) A positive peak detector function must be used.

(b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.

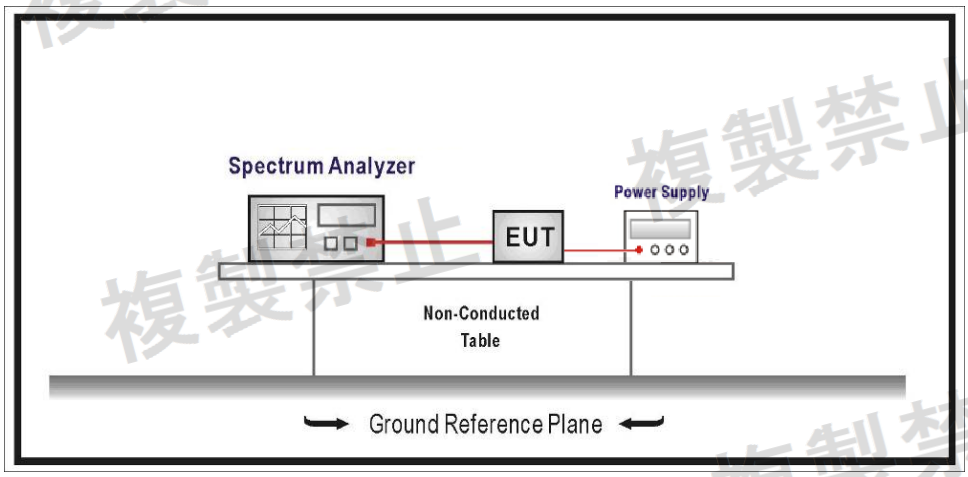
(c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

6.5. Test Result of Transmitter Spurious Emissions

Refer as Appendix D

7. Receiver Spurious Emissions

7.1. Test Setup



7.2. Test Limit

≤ 4nW for 30 MHz < f < 1000MHz

≤ 20nW for 1000 MHz ≤ f < 12500 MHz

7.3. Test Method

According to MIC Notice No. 88 Annex 43.

7.4. Test Procedure

The EUT is connected to the spectrum analyzer and it is configured in reception mode in the different test channels.

(a) A positive peak detector function must be used.

(b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.

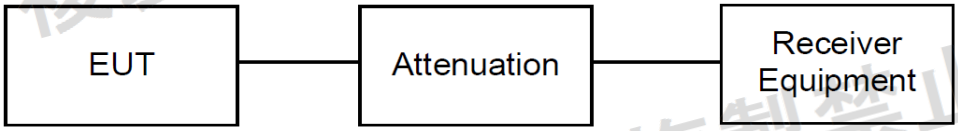
(c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

7.5. Test Result of Receiver Spurious Emissions

Refer as Appendix E

8. Interference Prevention Function

8.1. Test Setup



8.2. Test Method

According to MIC Notice No. 88 Annex 43.

8.3. Test Procedure

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

8.4. Test Result of Interference Prevention Function

Refer as Appendix F