

Article 2 Paragraph 1, item 19-3

TEST REPORT

For

TESS AIRTMS

MODEL NUMBER: S800

REPORT NUMBER: E04A25020671J00103

ISSUE DATE: April 22, 2025

Prepared for

KORNIC GLORY CO., Ltd.

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Prepared by

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Dongguan city, Guangdong, People's Republic of China, 523808**

This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 22, 2025	Initial Issue	Jok Yang

Summary of Test Results

Test Item	Clause	Result
Frequency Error	Article 2 Paragraph 1, item 19-3	Pass
Occupied Bandwidth	Article 2 Paragraph 1, item 19-3	Pass
Unwanted Emissions Intensity	Article 2 Paragraph 1, item 19-3	Pass
Antenna Power	Article 2 Paragraph 1, item 19-3	Pass
Limitation of Collateral Emission of Receiver	Article 2 Paragraph 1, item 19-3	Pass
Transmission Burst Length	Article 2 Paragraph 1, item 19-3	Pass
Adjacent Channel Leakage Power	Article 2 Paragraph 1, item 19-3	Pass
Dynamic Frequency Selection (DFS)	Article 2 Paragraph 1, item 19-3	Pass
Radio Interference prevention function	Article 2 Paragraph 1, item 19-3	Pass
Carrier sense capability	Article 2 Paragraph 1, item 19-3	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to < Article 2 Paragraph 1, item 19-3> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: KORNIC GLORY CO., Ltd.
Address: Wonyoung Bldg. 3F~4F, 155, Hakdong-ro, Gangnam-gu, Seoul,
Republic of Korea

Manufacturer Information

Company Name: DAVOLINK Inc.
Address: (Gwanyang-dong), 112 Beolmal-ro, Dongan-gu, Anyang-si,
Gyeonggi-do, Korea

EUT Information

Product Description: TESS AIRTMS
Model: S800
Brand: KORNIC GLORY CO., Ltd.
Sample Received Date: March 4, 2025
Sample Status: Normal
Sample ID: A25020671 001
Date of Tested: March 4, 2025 to April 14, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Article 2 Paragraph 1, item 19-3	Pass

Prepared By:



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Laboratory Leader

2. TEST METHODOLOGY

All tests were performed in accordance with the standard Article 2 Paragraph 1, item 19-3

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Items	k	Uncertainty
Occupied bandwidth	1.96	±9.0 PPM
Frequency Error	1.96	±9.0 PPM
Transmission Burst Length	1.96	±0.57%
Adjacent Channel Leakage Power	1.96	±1.12 dB
Antenna power	1.96	±1.12 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		TESS AIRTMS
Model		S800
Ratings		DC 12V/4A PSE(802.3bt, 50V~57V/40W)
Power Supply	DC	12V
	PSE	57V

Frequency Band:	W52: 5150 MHz to 5250 MHz W53: 5250 MHz to 5350 MHz W56: 5470 MHz to 5725 MHz
Frequency Range:	W52: 5180 MHz to 5240 MHz W53: 5260 MHz to 5320 MHz W56: 5500 MHz to 5700 MHz
Type of Modulation:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Rated Antenna Power	W52 1 mW/MHz for 802.11a 1.5 mW/MHz for 802.11n HT20 0.7 mW/MHz for 802.11n HT40 1.5 mW/MHz for 802.11ac VHT20 0.7 mW/MHz for 802.11ac VHT40 0.4 mW/MHz for 802.11ac VHT80 1.5 mW/MHz for 802.11ax HE20 0.7 mW/MHz for 802.11ax HE40 0.4 mW/MHz for 802.11ax HE80 W53 0.5 mW/MHz for 802.11a 2 mW/MHz for 802.11n HT20 1 mW/MHz for 802.11n HT40 2 mW/MHz for 802.11ac VHT20 1 mW/MHz for 802.11ac VHT40 1 mW/MHz for 802.11ac VHT80 1.5 mW/MHz for 802.11ax HE20 1 mW/MHz for 802.11ax HE40 1 mW/MHz for 802.11ax HE80 W56 5 mW/MHz for 802.11a 5 mW/MHz for 802.11n HT20 2 mW/MHz for 802.11n HT40 5 mW/MHz for 802.11ac VHT20 2 mW/MHz for 802.11ac VHT40 1 mW/MHz for 802.11ac VHT80 5 mW/MHz for 802.11ax HE20 2 mW/MHz for 802.11ax HE40 1 mW/MHz for 802.11ax HE80

Antenna Type:	Internal Antenna
Antenna Gain:	W52 5.73 dBi for antenna 1 5.96 dBi for antenna 2 6.10 dBi for antenna 3 5.64 dBi for antenna 4 W53 6.25 dBi for antenna 1 6.28 dBi for antenna 2 6.39 dBi for antenna 3 6.43 dBi for antenna 4 W56 6.21 dBi for antenna 1 6.36 dBi for antenna 2 6.52 dBi for antenna 3 6.45 dBi for antenna 4
EUT Test software:	QRCT

5.2. CHANNEL LIST

W52 (For Bandwidth = 20 MHz)		W52 (For Bandwidth = 40 MHz)		W52 (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

W53 (For Bandwidth = 20 MHz)		W53 (For Bandwidth = 40 MHz)		W53 (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

W56 (For Bandwidth = 20 MHz)		W56 (For Bandwidth = 40 MHz)		W56 (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				

124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

5.3. TEST ENVIRONMENT

Test Voltage: 12V DC

The EUT is supplied with 12V DC The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from 12V DC to the test equipment is fluctuated by $\pm 10\%$, So all measurement was conducted on the rated voltage (12V DC).

5.4. TEST CHANNEL CONFIGURATION

W52 Test Channel Configuration		
Test Mode	Test Channel Number	Frequency
801.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ac VHT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz
802.11ax HE20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ax HE40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ax HE80	CH 42(Low Channel)	5210 MHz

W53 Test Channel Configuration		
Test Mode	Test Channel Number	Frequency
801.11a	CH 52(Low Channel), CH 60(MID Channel), CH 64(High Channel)	5260 MHz, 5300 MHz, 5320 MHz
802.11n HT20	CH 52(Low Channel), CH 60(MID Channel), CH 64(High Channel)	5260 MHz, 5300 MHz, 5320 MHz
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT20	CH 52(Low Channel), CH 60(MID Channel), CH 64(High Channel)	5260 MHz, 5300 MHz, 5320 MHz
802.11ac VHT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT80	CH 58(Low Channel)	5290 MHz
802.11ax HE20	CH 52(Low Channel), CH 60(MID Channel), CH 64(High Channel)	5260 MHz, 5300 MHz, 5320 MHz
802.11ax HE40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ax HE80	CH 58(Low Channel)	5290 MHz

W56 Test Channel Configuration		
Test Mode	Test Channel Number	Frequency
801.11a	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11n HT20	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11n HT40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz
802.11ac VHT20	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11ac VHT40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz
802.11ac VHT80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz
802.11ax HE20	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11ax HE40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz
802.11ax HE80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

WORST-CASE CONFIGURATIONS

Test Mode	Modulation Type	Data Rate
801.11a	OFDM	6 Mbps
802.11n HT20	OFDM	MCS24
802.11n HT40	OFDM	MCS24
802.11ac VHT20	OFDM	MCS0
802.11ac VHT40	OFDM	MCS0
802.11ac VHT80	OFDM	MCS0
802.11ax HE20	OFDMA	MCS0
802.11ax HE40	OFDMA	MCS0
802.11ax HE80	OFDMA	MCS0

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

The Worse Case Power Setting Parameter	
Test Software	QRCT

Test Mode	Rate	Channel	Test Software Setting Value			
			ANT 1	ANT 2	ANT 3	ANT 4
802.11a	6M	36	10	10	10	10
		40	10	10	10	10
		48	10	10	10	10
		52	8	8	8	8
		60	8	8	8	8
		64	8	8	8	8
		100	20	20	20	20
		120	20	20	20	20
		140	20	20	20	20

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value			
			ANT 1+ANT 2+ ANT 3+ ANT 4			
802.11n HT20	MCS24	36	8			
		40	8			
		48	8			
		52	11			
		60	11			
		64	11			
		100	15			
		120	15			
		140	15			
802.11n HT40	MCS24	38	8			
		46	8			
		54	11			
		62	11			
		102	14			
		118	14			
		134	14			
802.11ac VHT20	MCS0	36	8			
		40	8			
		48	8			
		52	11			
		60	11			
		64	11			
		100	15			
		120	15			
		140	15			
802.11ac VHT40	MCS0	38	8			
		46	8			
		54	11			
		62	11			
		102	14			
		118	14			
		134	14			

802.11ac VHT80	MCS0	42	9
		58	11
		106	13
		122	13
802.11ax HE20	MCS0	36	8
		40	8
		48	8
		52	9
		60	9
		64	9
		100	15
		120	15
802.11ax HE40	MCS0	140	15
		38	8
		46	8
		54	11
		62	11
		102	14
		118	14
802.11ax HE80	MCS0	134	14
		42	9
		58	11
		106	11
		122	11

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

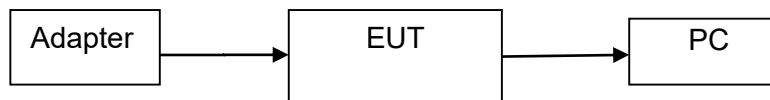
Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	5180-5240	Internal Antenna	5.73
2	5180-5240	Internal Antenna	5.96
3	5180-5240	Internal Antenna	6.10
4	5180-5240	Internal Antenna	5.64
1	5260-5320	Internal Antenna	6.25
2	5260-5320	Internal Antenna	6.28
3	5260-5320	Internal Antenna	6.39
4	5260-5320	Internal Antenna	6.43
1	5500-5700	Internal Antenna	6.21
2	5500-5700	Internal Antenna	6.36
3	5500-5700	Internal Antenna	6.52
4	5500-5700	Internal Antenna	6.45

Test Mode	Transmit and Receive Mode	Description
802.11a	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11n HT20	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11n HT40	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ac VHT80	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ax HE20	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ax HE40	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.
802.11ax HE80	☒4TX, 4RX	Antenna 1, Antenna 2, Antenna 3 and Antenna 4 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

Equipment	Manufacturer	Model No.
Adapter	Lulian	CD170
PC	Lenovo	T14

5.8. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Note: The instruments and equipment listed in the table are calibrated by Lisai, and the calibration method is referred to item ii c) of Article 24-2 paragraph 4.

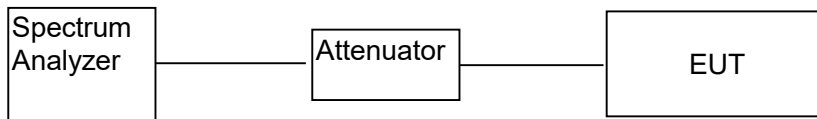
7. TEST RESULTS

7.1. FREQUENCY ERROR

LIMIT

According to Item 19-3 of Article 2 Paragraph 1, the maximum permit tolerance of frequency is 20ppm.

TEST CONFIGURATION



TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10KHz, Span = 1MHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"- Appendix D, Appendix F and Appendix H

7.2. ANTENNA POWER

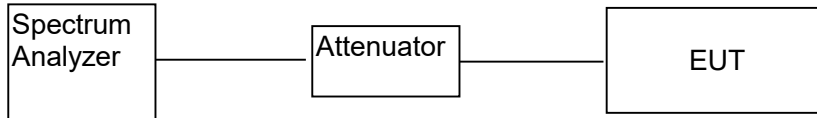
LIMIT

Antenna Power	EIRP
W52	
DSSS ≤ 10 mW/MHz, Other ≤ 10 mW	DSSS,etc ≤ 10 mW/MHz
OFDM a. OBW ≤ 20 MHz: for ≤ 10 mW/MHz b. $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$: for ≤ 5 mW/MHz c. $40\text{MHz} < \text{OBW} \leq 80\text{MHz}$: for ≤ 2.5 mW/MHz d. $80\text{MHz} < \text{OBW} \leq 160\text{MHz}$:for $< \text{OBW} \leq 1.25$ mW/MHz	OFDM a. OBW ≤ 20 MHz: for ≤ 10 mW/MHz b. $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$: for ≤ 5 mW/MHz c. $40\text{MHz} < \text{OBW} \leq 80\text{MHz}$: for ≤ 2.5 mW/MHz d. $80\text{MHz} < \text{OBW} \leq 160\text{MHz}$:for $< \text{OBW} \leq 1.25$ mW/MHz
W53	
DSSS ≤ 10 mW/MHz, Other ≤ 10 mW	DSSS,etc 10 mW/MHz:with TPC;5 mW/MHz:without TPC
OFDM a. OBW ≤ 20 MHz: for ≤ 10 mW/MHz b. $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$: for ≤ 5 mW/MHz c. $40\text{MHz} < \text{OBW} \leq 80\text{MHz}$: for ≤ 2.5 mW/MHz d. $80\text{MHz} < \text{OBW} \leq 160\text{MHz}$:for $< \text{OBW} \leq 1.25$ mW/MHz	OFDM a.10 mW/MHz:with TPC;5 mW/MHz:without TPC b.5 mW/MHz:with TPC;2.5 mW/MHz:without TPC c.2.5 mW/MHz:with TPC;1.25 mW/MHz:without TPC d.1.25mW/MHz:with TPC;0.625mW/MHz:without TPC
W56	
DSSS ≤ 10 mW/MHz, Other ≤ 10 mW	DSSS,etc 50 mW/MHz:with TPC;25 mW/MHz:without TPC
OFDM a. OBW ≤ 20 MHz: for ≤ 10 mW/MHz b. $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$: for ≤ 5 mW/MHz c. $40\text{MHz} < \text{OBW} \leq 80\text{MHz}$: for ≤ 2.5 mW/MHz d. $80\text{MHz} < \text{OBW} \leq 160\text{MHz}$:for $< \text{OBW} \leq 1.25$ mW/MHz	OFDM a.50 mW/MHz:with TPC;25 mW/MHz:without TPC b.25 mW/MHz:with TPC;1.25 mW/MHz:without TPC c.12.5 mW/MHz:with TPC;6.25 mW/MHz:without TPC d.6.25 mW/MHz:with TPC;3.125 mW/MHz:without TPC

The Output Power Tolerance must be within:

a. W52/W53: -80% ~ +20%.

b. W56: -50% ~ +50%.

TEST CONFIGURATION**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 sample detector function must be used.
- (b) A measurement instrument with an integrated 1MHz power bandwidth function may be used to automate the test process.
- (c) Connect the EUT to the RF input of the spectrum analyzer via a 50ohm attenuator.
- (d) Set the RBW = 1MHz, VBW = 1MHz, center of frequency = operating frequency, Sweep = Auto.
- (e) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
- (f) Repeat above procedures until all frequency measured was complete.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"-Appendix D, Appendix E, Appendix F and Appendix H

7.3. OCCUPIED BANDWIDTH

LIMIT

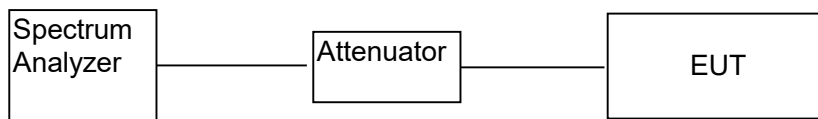
W52/W53:

- a. $OBW \leq 18\text{MHz}$ (20MHz System, Dsss, etc)
- b. $OBW \leq 20\text{MHz}$ (20MHz System, OFDM)
- c. $20\text{MHz} < OBW \leq 40\text{MHz}$ (40MHz System, OFDM)
- d. $40\text{MHz} < OBW \leq 80\text{MHz}$ (80MHz System, OFDM)
- e. $80\text{MHz} < OBW \leq 160\text{MHz}$ (160MHz System, OFDM)

W56:

- a. $OBW \leq 18\text{MHz}$ (20MHz System, Dsss, etc)
- b. $OBW \leq 20\text{MHz}$ (20MHz System, OFDM)
- c. $20\text{MHz} < OBW \leq 40\text{MHz}$ (40MHz System, OFDM)
- d. $40\text{MHz} < OBW \leq 80\text{MHz}$ (80MHz System, OFDM)
- e. $80\text{MHz} < OBW \leq 160\text{MHz}$ (160MHz System, OFDM)

TEST CONFIGURATION



TEST PROCEDURE

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode : Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

- (4) Add up the electric power of all data and record it as "Sum total of electric power".
- (5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".
- (6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".
- (7) Repeat above procedures until all frequency measured was complete.

TEST ENVIRONMENT

Temperature	22.1 °C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"- Appendix D, Appendix F and Appendix H

7.4. UNWANTED EMISSIONS INTENSITY

LIMIT

W52:

Bandwidth	Frequency	Limit
OBW ≤20MHz	30MHz~5142MHz	≤ -26dBm
	5266.7MHz~26000MHz	≤ -26dBm
20MHz <OBW≤ 40MHz	30MHz~5141.6MHz	≤ -26dBm
	5278.4MHz~26000MHz	≤ -26dBm
40MHz <OBW≤ 80MHz	30MHz~5123.2MHz	≤ -26dBm
	5296.7MHz~26000MHz	≤ -26dBm

W53:

Bandwidth	Frequency	Limit
OBW ≤20MHz	30MHz~5233.3MHz	≤ -26dBm
	5350MHz~26000MHz	≤ -26dBm
20MHz <OBW≤ 40MHz	30MHz~5221.6MHz	≤ -26dBm
	5358.4MHz~26000MHz	≤ -26dBm
40MHz <OBW≤ 80MHz	30MHz~5203.3MHz	≤ -26dBm
	5376.8MHz~26000MHz	≤ -26dBm

W52&W53

Bandwidth	Frequency	Limit
80MHz <OBW≤160MHz	30MHz~5099.6MHz	≤ -26dBm
	5400.4MHz~26000MHz	≤ -26dBm

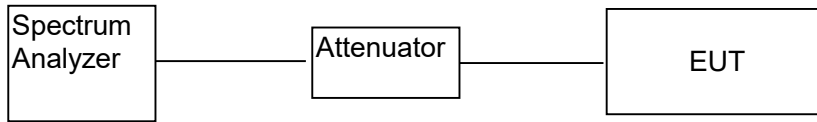
W56:

Bandwidth	Frequency	Limit
OBW ≤20MHz (NO OFDM)	30MHz~5470MHz	≤ -26dBm
	5730MHz~26000MHz	≤ -26dBm
OBW≤ 20MHz (OFDM)	30MHz~5460MHz	≤ -26dBm
	5765MHz~26000MHz	≤ -26dBm
20MHz <OBW≤ 40MHz	30MHz~5460MHz	≤ -19dBm
	5770MHz~26000MHz	≤ -19dBm
40MHz <OBW≤ 80MHz	30MHz~5460MHz	≤ -19dBm
	5770MHz~26000MHz	≤ -19dBm
80MHz <OBW≤ 160MHz	30MHz~5419.6MHz	≤ -19dBm
	5725MHz~26000MHz	≤ -19dBm

W52	
Bandwidth	Limit (e.i.r.p)
OBW ≤ 18MHz	5142~5150MHz: 15μW/MHz or less 5250~5251MHz: $10^{1-(f-9)}$ mW/MHz or less (f: 10-11MHz) 5251~5260MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz or less (f: 11-20MHz) 5260~5266.7MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz or less (f: 20-26.7MHz)
18MHz <OBW ≤ 20MHz	5142~5150MHz: 15μW/MHz or less 5250~5250.2MHz: $10^{1-(8/3)(f-9.75)}$ μW/MHz or less (f: 10-10.2MHz) 5250.2~5251MHz: $10^{1-(f-9)}$ mW/MHz or less (f: 10-11MHz) 5251~5260MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz or less (f: 11-20MHz) 5260~5266.7MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz or less (f: 20-26.7MHz)
20MHz <OBW ≤ 40MHz	5141.6~5150MHz: 15μW/MHz or less 5250~5251MHz: $10^{-(f-20)+\log(1/2)}$ mW/MHz or less (f: 20-21MHz) 5251~5270MHz: $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz or less (f: 21-40MHz) 5270~5278.4MHz: $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz or less (f: 40-48.4MHz)
40MHz <OBW ≤ 80MHz	5123.2~5150MHz: 15μW/MHz or less 5250~5251MHz: $10^{-(f-40)+\log(1/4)}$ mW/MHz (f: 40-41MHz) 5251~5290MHz: $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz (f: 41-80MHz) 5290~5296.7MHz: $10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz (f: 80-86.7MHz)
W53	
Bandwidth	Limit(e.i.r.p)
OBW ≤ 18MHz	5233.3~5240MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz or less (f: 26.7-20MHz) 5240~5249MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz or less (f: 20-11MHz) 5249~5250MHz: $10^{1-(f-9)}$ mW/MHz or less (f: 11-10MHz)
18MHz <OBW ≤ 20MHz	5233.3~5240MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz or less (f: 26.7-20MHz) 5240~5249MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz or less (f: 20-11MHz) 5249~5249.8MHz: $10^{1-(f-9)}$ mW/MHz or less (f: 11-10.2MHz) 5249.8~5250MHz: $10^{1-(8/3)(f-9.75)}$ mW/MHz or less (f: 10.2-10MHz)
20MHz <OBW ≤ 40MHz	5221.6~5230MHz: $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz or less (f: 48.4-40MHz) 5230~5249MHz: $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz or less (f: 40-21MHz) 5249~5250MHz: $10^{-(f-20)+\log(1/2)}$ mW/MHz or less (f: 21-20MHz) 5350~5358.4MHz: 15μW/MHz or less
40MHz <OBW ≤ 80MHz	5203.3~5210MHz: $10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz (f: 86.7-80MHz) 5210~5249MHz: $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz (f: 80-41MHz) 5249~5250MHz: $10^{-(f-40)+\log(1/4)}$ mW/MHz (f: 41-40MHz) 5350~5376.8MHz: 15μW/MHz or less

W52 & W53	
Bandwidth	Limit(e.i.r.p)
80MHz <OBW ≤ 160MHz	5099.6~5150MHz: 15μW/MHz or less 5350~5400.4MHz: 15μW/MHz or less

W56	
Bandwidth	Limit(e.i.r.p)
OBW ≤ 20MHz	5460~5470MHz: 12.5μW/MHz or less 5745~5765MHz: 12.5μW/MHz or less
20MHz <OBW ≤ 40MHz	5460~5470MHz: 15μW/MHz or less
40MHz <OBW ≤ 80MHz	5460~5469.5MHz: 15μW/MHz or less 5469.5~5470MHz: 15μW/MHz or less
80MHz <OBW ≤ 160MHz	5419.6~5470MHz: 50μW/MHz or less

TEST CONFIGURATION**TEST PROCEDURE**

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"-Appendix D, Appendix E, Appendix F, Appendix G, Appendix H and Appendix I

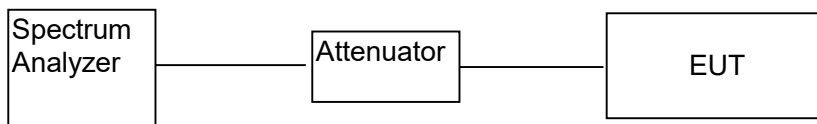
7.5. LIMITATION OF COLLATERAL EMISSION OF RECEIVER

LIMIT

According to Item 19-3 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceeded the following limit:

- (1) Below 1GHz : 4nW/100kHz
- (2) 1GHz or higher : 20nW/MHz

TEST CONFIGURATION



TEST PROCEDURE

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

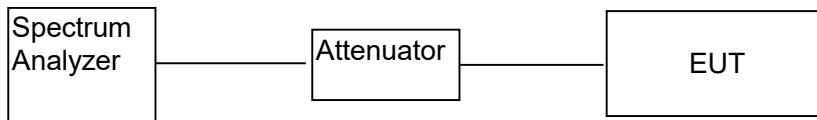
Please refer to "Test Data"- Appendix D, Appendix F and Appendix H

7.6. TRANSMISSION BURST LENGTH

LIMIT

8ms or less

TEST CONFIGURATION



TEST PROCEDURE

Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

Use Spectrum's ACP measurement function and set spectrum analyzer as fellow:

Spectrum Condition:

- (1) Frequency: test frequency
- (2) Span: 0Hz, RBW: 1MHz, VBW: 3MHz, Sweep time: Auto, Sweep mode: single
- (3) Detector mode: Peak, Indication mode: Max hold

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"- Appendix D, Appendix F and Appendix H

7.7. ADJACENT CHANNEL LEAKAGE POWER

LIMIT

W52/W53/W56

For system $OBW \leq 18\text{MHz}$

- 20MHz detuning: -25dBc/18MHz
- 40MHz detuning: -40dBc/18MHz

For system $18\text{MHz} < OBW \leq 20\text{MHz}$

- 20MHz detuning: -25dBc/20MHz
- 40MHz detuning: -40dBc/20MHz

For system $20\text{MHz} < OBW \leq 40\text{MHz}$

- 40MHz detuning: -25dBc/40MHz
- 80MHz detuning: -40dBc/40MHz

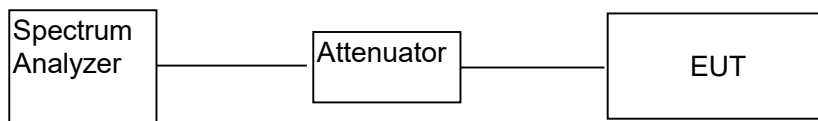
For system $40\text{MHz} < OBW \leq 80\text{MHz}$

- 80MHz detuning: -25dBc/80MHz

For system $80\text{MHz} < OBW \leq 160\text{MHz}$

- N/A

TEST CONFIGURATION



TEST PROCEDURE

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The center frequency of the channel under test.

Resolution BW: 300kHz.

Video BW: 300kHz.

Span $\geq 90\text{MHz}$,

Detector: Peak.

Trace Mode: Max Hold.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to "Test Data"-Appendix D, Appendix E, Appendix F, Appendix G, Appendix H and Appendix I

7.8. DYNAMIC FREQUENCY SELECTION (DFS)

APPLIED DEVICE

DFS is required in the frequency ranges 5250 MHz to 5350 MHz, 5470MHz to 5725MHz. This requirement applies to Master types of RLAN devices.

MASTER DEVICE REQUIREMENTS

- (1) Before initiating a network on a channel, which has not been identified as an Available Channel, the master device shall perform a Channel Availability Check to ensure that there is no radar operating on the channel.
- (2) During normal operation, the master device shall monitor the Operating Channel (In-Service Monitoring) to ensure that there is no radar operating on the channel. When the master device has detected a radar signal during In-Service Monitoring, the Operating Channel is made unavailable. The master device shall instruct all its associated slave devices to stop transmitting on this (to become unavailable) channel.
- (3) The master device shall not resume any transmissions on this Unavailable Channel during a period of time after a radar signal was detected. This period is referred as the Non-Occupancy Period.

SLAVE DEVICE REQUIREMENTS

Not Applicable

DFS RESPONSE REQUIREMENT VALUE

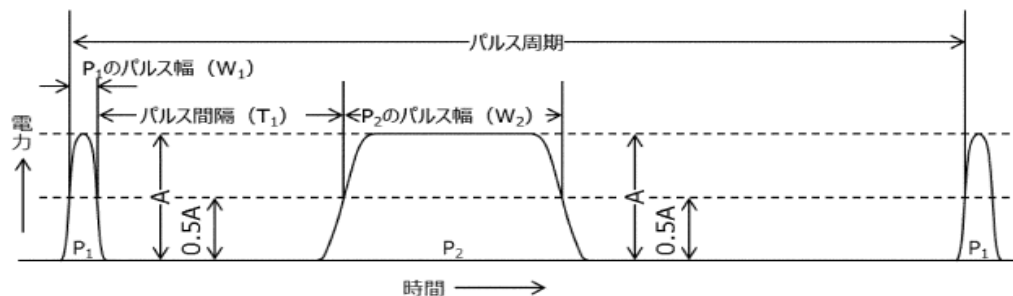
Parameter	Value
Channel Availability Check Time	$\geq 60s$
Channel Move Time	$< 10s$
Channel Closing Transmission Time	$< 260ms$
Non-Occupancy Period	$\geq 30 \text{ min}$

RADAR CLASSIFICATION & DETECTION PROBABILITY**W53 Frequency Band**

The radio wave which a radar transmits						Detection probability
classification	Pulse width (μs)		Repetition frequency(Hz)		Minimum number of consecutive pulses	
	minimum value	maximum value	minimum value	maximum value		
1	0.5	5	200	1,000	10	60% or more
2	0.5	15	200	1,600	15	60% or more
3	0.5	5	200	1,000	“Repetition frequency ×0.026” (round up to less than 1),or “22”,whichever is larger, or “30”,whichever is smaller.	60% or more
4	0.5	15	200	1,600	“Repetition frequency ×0.026” (round up to less than 1),or “22”,whichever is larger, or “30”,whichever is smaller.	60% or more
5	0.5	1.5	1,114	1,118	30	60% or more
6	0.5	1.5	928	932	25	60% or more
7	0.5	1.5	886	890	24	60% or more
8	0.5	1.5	738	742	20	60% or more

*1 The probability of detection is based on the total transmission time of 30msec or more in an arbitrary 100msec interval from the radio equipment of the master station (limited to those whose connection method is the carrier sense multiple access method) to the radio equipment of the slave stations.

*2 In this table, "A" is the maximum power of P1 and P2, "Pulse Width" is the pulse W1 of P1 in the following figure, and "Repetition Frequency" is the reciprocal of the pulse period in the following figure. Also, the pulse width and repetition frequency shall be any value between the minimum and maximum values.



*3

Frequency

deviation width for performing linear frequency modulation during one pulse period (hereinafter "chirp width"), pulse interval T1 of P1, pulse width W2 of P2 and pulse width W1 of P1 and pulse width W2 of P2 The value obtained by multiplying the difference and the pulse width W1 of P1 by the repetition frequency (hereinafter referred to as the "duty ratio") shall be as follows. It should be noted that each pulse interval and each pulse width are defined as the rise time and fall time of each pulse with a power of 0.5A as the base point.

For type 3 and type 4

chirp width

P1 pulse interval T1

Pulse width W2 of P2

Difference between pulse width of P1 and pulse width of P2

duty ratio

±0.5 MHz ~ ±1.0 MHz

70 μsec or more

20 μsec or more and 110 μsec or less

15 μs or more with the following commands: |W2-W1|

less than 10%

For type 5 and type 8
 chirp width
 P1 pulse interval T1
 Pulse width W2 of P2

$\pm 0.5 \text{ MHz} \sim \pm 1.0 \text{ MHz}$
 50 μsec or more
 28.5 μsec or more and 33.6 μsec or less

W56 Frequency Band

The radio wave which a radar transmits *Un-modulated pulse				Detection probability *
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	0.5 μs	720 Hz	18	60% or more
2	1 μs	700 Hz	18	60% or more
3	2.0 μs	250 Hz	18	60% or more
4	1 $\mu\text{s} \leq X \leq 5 \mu\text{s}$ ("1 μs " or "width which added the integral multiple of 1 μs to 1 μs ")	4,347Hz $\leq X \leq$ 6,667Hz (arbitrary frequency of 1)	23 $\leq X \leq$ 29 (arbitrary integer of 1)	60% or more
5	6 $\mu\text{s} \leq X \leq 10 \mu\text{s}$ ("6 μs " or "width which added the integral multiple of 1 μs to 6 μs ")	2,000Hz $\leq X \leq$ 5,000Hz (arbitrary frequency of 1)	16 $\leq X \leq$ 18 (arbitrary integer of 1)	60% or more
6	11 $\mu\text{s} \leq X \leq 20 \mu\text{s}$ ("11 μs " or "width which added the integral multiple of 1 μs to 11 μs ")	2,000Hz $\leq X \leq$ 5,000Hz (arbitrary frequency of 1)	12 $\leq X \leq$ 16 (arbitrary integer of 1)	60% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 The average value of the "detection probability" for every classification of the radio wave which a radar transmits shall be "80% or more".

The radio wave which a radar transmits *Modulated pulse (Chirp radar)				Detection probability *
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	50 $\mu\text{s} \leq X \leq 100 \mu\text{s}$ ("50 μs " or "width which added the integral multiple of 1 μs to 50 μs ")	500Hz $\leq X \leq$ 1,000Hz (arbitrary frequency of 1)	1 $\leq X \leq$ 3 (arbitrary integer of 1)	80% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 A mass of the number of continuous pulses (burst) shall be radiated for 12 seconds.

*3 Deviation width of the frequency for performing linearly frequency modulation during the pulse (Chirp width) : 5MHz $\leq X \leq$ 20MHz ("5MHz" or "frequency width which added the integral multiple of 1MHz to 5MHz") In this case, "chirp width" is arbitrary to each burst, "chirp width" in the same burst shall be an equal thing.

*4 Number of burst : 8 $\leq X \leq$ 20 (arbitrary integer), Burst interval : Time which divided 12 seconds by the number of burst.

*5 When there are two or more pulses within the burst of 1, the pulse width shall be an equal thing.

*6 When there are two or more pulses within the burst of 1, the "repetition frequency" must not have relevance between the "repetition frequency" of the pulse of 1, and the "repetition frequency" of the pulse of next 1.

The radio wave which a radar transmits *Modulated pulse (hopping radar)				Detection probability *
Classification	Pulse width	Repetition frequency	Number of pulses in a burst of 1	
1	1 μs	3000 Hz	9	70% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 Burst : One mass of the number of continuous pulses

*3 Hopping frequency : 5,250MHz $\leq X \leq$ 5724MHz ("5250MHz" or "the arbitrary frequency which added the integral multiple of 1MHz to 5250MHz")

*4 Switching interval of the hopping frequency : "3ms", Total switching interval of the all hopping frequency : "300ms"

*5 Burst interval : "3 ms."

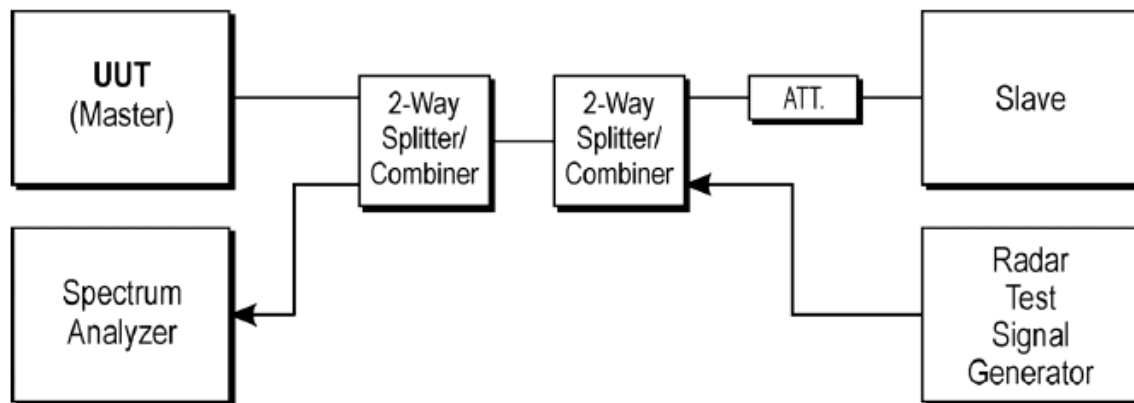
THE RECEIVING THRESHOLD LEVEL

The receiving threshold level is the following.

Maximum E. I. R. P.	Received power (average)
less than 0.2W	-62dBm
0.2W or more	-64dBm

Note:

1. For W53, According to the E.I.R.P result in E04A23060277J00104 5G WIFI test report, Maximum E.I.R.P is less than 0.2W, DFS testing will be tested under Received power -62dbm or less.
2. For W56, According to the E.I.R.P result in E04A23060277J00104 5G WIFI test report, Maximum E.I.R.P is less than 0.2W, DFS testing will be tested under Received power -62dbm or less.

TEST SETUP**TEST ENVIRONMENT**

Temperature	22.1℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

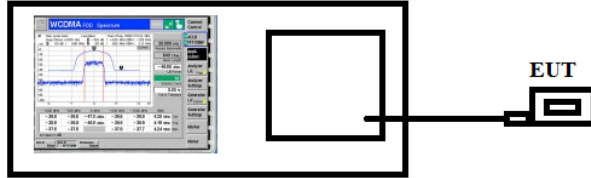
TEST RESULTS

Please refer to "Test Data"-Appendix J

7.9. RADIO INTERFERENCE PREVENTION FUNCTION

According to Item 19-3 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

Universal Radio Communication Tester



1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded with "Good" or "No".

TEST ENVIRONMENT

Temperature	22.1℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

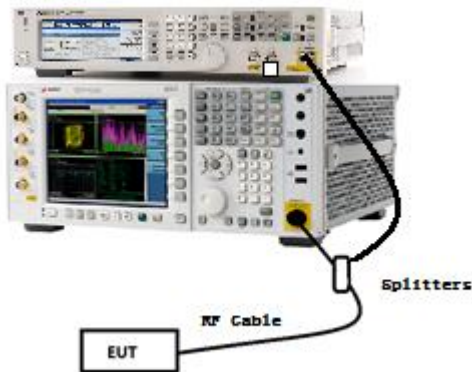
Test Power	Normal Voltage
Test Mode	Signaling Mode
Test Result	Good, MAC Address:(60: 29: D5: 89: 00: B0)

7.10. CARRIER SENSE CAPABILITY

LIMIT

According to ORRE, art 49.20. The device shall have the carrier sensing function.

TEST CONFIGURATION



TEST PROCEDURE

1. SG adjust the frequency as same as the EUT transmitted signal, unmodulation, power level 0dBm, Then turn off the RF signal
2. EUT have transmitted the maximum modulation signal and fixed channel
3. Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
4. SG Signal on EUT shall be stop the transmitted, Then turn off the SG, The EUT shall be continuous transmitted signal.

TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Antenna 1

W52

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5180	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5200	OK	
	5240	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5190	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5230	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5210	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W53

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5260	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5300	OK	
	5320	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5270	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5310	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5290	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W56

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5500	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5600	OK	
	5700	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5510	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5590	OK	
	5670	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5530	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5610	OK	

Antenna 2

W52

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5180	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5200	OK	
	5240	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5190	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5230	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5210	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W53

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5260	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5300	OK	
	5320	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5270	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5310	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5290	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W56

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5500	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5600	OK	
	5700	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5510	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5590	OK	
	5670	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5530	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5610	OK	

Antenna 3

W52

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5180	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5200	OK	
	5240	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5190	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5230	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5210	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W53

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5260	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5300	OK	
	5320	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5270	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5310	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5290	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W56

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5500	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5600	OK	
	5700	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5510	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5590	OK	
	5670	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5530	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5610	OK	

Antenna 4

W52

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5180	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5200	OK	
	5240	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5190	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5230	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5210	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

W53

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5260	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5300	OK	
	5320	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5270	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5310	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5290	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

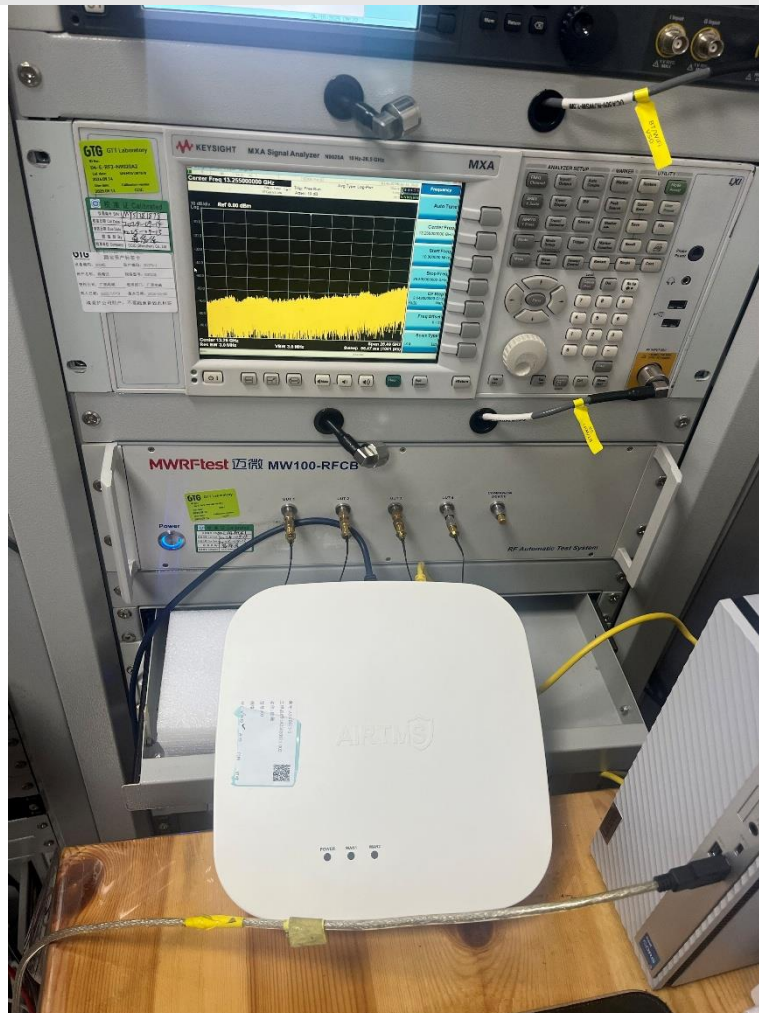
W56

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE20	5500	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5600	OK	
	5700	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE40	5510	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5590	OK	
	5670	OK	

Test Mode	Frequency (MHz)	Carrier Sense (100mV/m)	Limit
802.11ax HE80	5530	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	5610	OK	

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION



APPENDIX: PHOTOGRAPHS OF EUT

Photographs of the EUT Please refer to report E04A25020671J00101.

END OF REPORT